

10/781,956

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

|              |    |        |   |
|--------------|----|--------|---|
| NEWS         | 1  |        | Web Page URLs for STN Seminar Schedule - N. America   |
| NEWS         | 2  |        | "Ask CAS" for self-help around the clock  |
| NEWS         | 3  | SEP 09 | CA/CAPLUS records now contain indexing from 1907 to the present   |
| NEWS         | 4  | Jul 15 | Data from 1960-1976 added to RDISCLOSURE  |
| NEWS         | 5  | Jul 21 | Identification of STN records implemented   |
| NEWS         | 6  | Jul 21 | Polymer class term count added to REGISTRY  |
| NEWS         | 7  | Jul 22 | INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available   |
| NEWS         | 8  | AUG 05 | New pricing for EUROPATFULL and PCTFULL effective August 1, 2003  |
| NEWS         | 9  | AUG 13 | Field Availability (/FA) field enhanced in BEILSTEIN  |
| NEWS         | 10 | AUG 15 | PATDPAFULL: one FREE connect hour, per account, in September 2003   |
| NEWS         | 11 | AUG 15 | PCTGEN: one FREE connect hour, per account, in September 2003   |
| NEWS         | 12 | AUG 15 | RDISCLOSURE: one FREE connect hour, per account, in September 2003  |
| NEWS         | 13 | AUG 15 | TEMA: one FREE connect hour, per account, in September 2003   |
| NEWS         | 14 | AUG 18 | Data available for download as a PDF in RDISCLOSURE   |
| NEWS         | 15 | AUG 18 | Simultaneous left and right truncation added to PASCAL  |
| NEWS         | 16 | AUG 18 | FROSTI and KOSMET enhanced with Simultaneous Left and Right Truncation  |
| NEWS         | 17 | AUG 18 | Simultaneous left and right truncation added to ANABSTR   |
| NEWS         | 18 | SEP 22 | DIPPR file reloaded   |
| NEWS         | 19 | SEP 25 | INPADOC: Legal Status data to be reloaded   |
| NEWS EXPRESS |    |        | April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003 |
| NEWS HOURS   |    |        | STN Operating Hours Plus Help Desk Availability   |
| NEWS INTER   |    |        | General Internet Information  |
| NEWS LOGIN   |    |        | Welcome Banner and News Items   |
| NEWS PHONE   |    |        | Direct Dial and Telecommunication Network Access to STN   |
| NEWS WWW     |    |        | CAS World Wide Web Site (general information)   |

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:00:59 ON 27 SEP 2003

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 14:01:07 ON 27 SEP 2003

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STRUCTURE FILE UPDATES: 26 SEP 2003 HIGHEST RN 593958-55-5

DICTIONARY FILE UPDATES: 26 SEP 2003 HIGHEST RN 593958-55-5

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

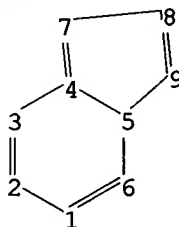
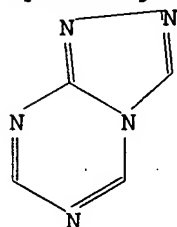
Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>

Uploading C:\STNEXP4\QUERIES\10439804.str



L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

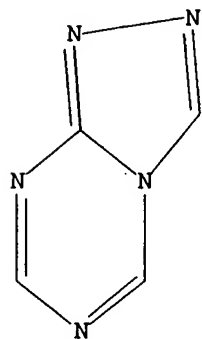
=> d l1

L1 HAS NO ANSWERS

10/781,956

L1

STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam

SAMPLE SEARCH INITIATED 14:01:24 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 59 TO ITERATE

100.0% PROCESSED 59 ITERATIONS

10 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 720 TO 1640

PROJECTED ANSWERS: 11 TO 389

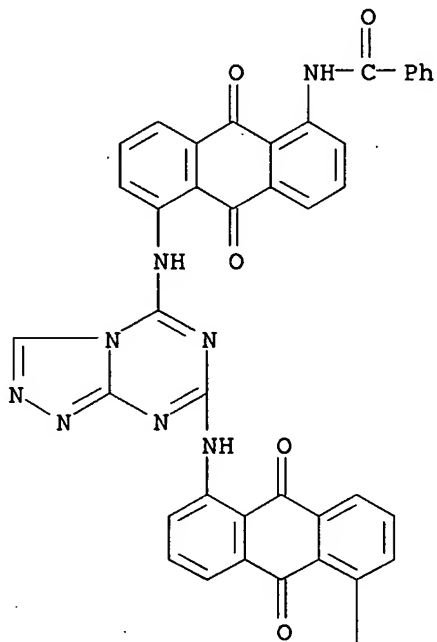
L3 10 SEA SSS SAM L1

=> d scan

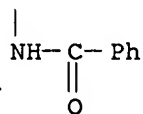
10/781,956

L3 10 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN  
IN Benzamide, N,N'-[1,2,4-triazolo[4,3-a][1,3,5]triazine-5,7-  
diylbis[imino(9,10-dihydro-9,10-dioxo-5,1-anthracenediyl)]]bis- (9CI)  
MF C46 H27 N9 O6

PAGE 1-A



PAGE 2-A



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

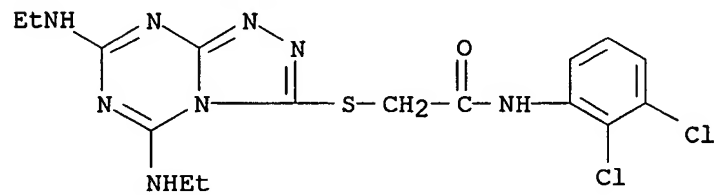
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):9

10/781,956

L3 10 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Acetamide, 2-[[5,7-bis(ethylamino)-1,2,4-triazolo[4,3-a][1,3,5]triazin-3-yl]thio]-N-(2,3-dichlorophenyl)- (9CI)

MF C16 H18 Cl2 N8 O S



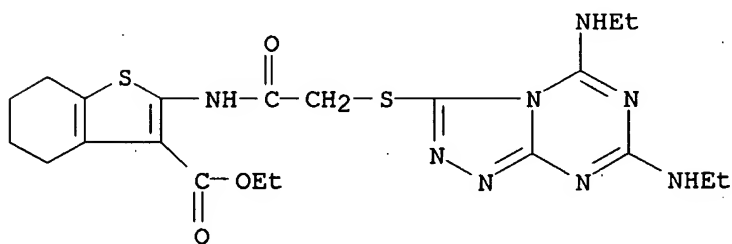
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

10/781,956

L3 10 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Benzo[b]thiophene-3-carboxylic acid, 2-[[[5,7-bis(ethylamino)-1,2,4-triazolo[4,3-a][1,3,5]triazin-3-yl]thio]acetyl]amino]-4,5,6,7-tetrahydro-, ethyl ester (9CI)

MF C21 H28 N8 O3 S2

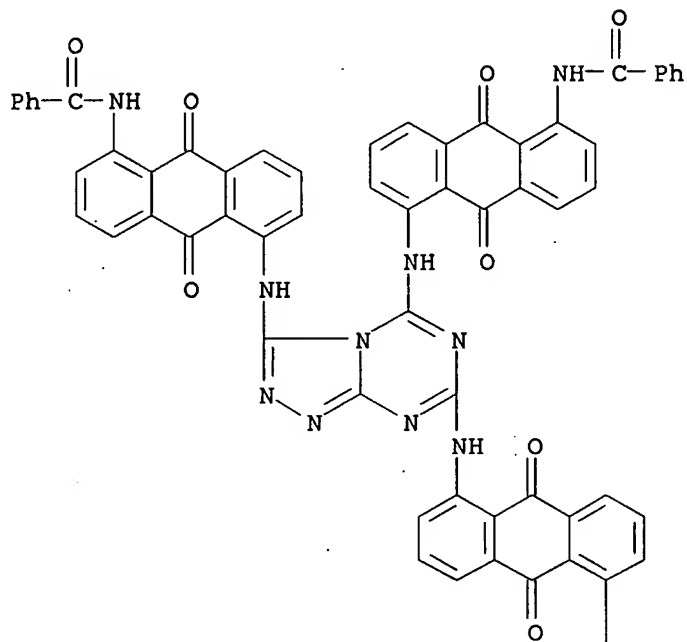


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

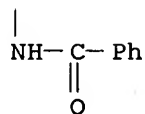
10/781,956

L3 10 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN  
IN Anthraquinone, 1,1',1''-(s-triazolo[4,3-a]-s-triazine-3,5,7-  
triylyltriimino)tris[5-benzamido- (7CI)  
MF C67 H39 N11 O9

PAGE 1-A



PAGE 2-A

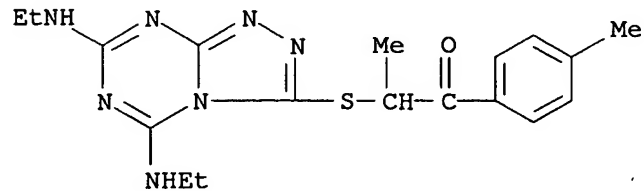


10/781,956

L3 10 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN 1-Propanone, 2-[[5,7-bis(ethylamino)-1,2,4-triazolo[4,3-a][1,3,5]triazin-3-yl]thio]-1-(4-methylphenyl)- (9CI)

MF C18 H23 N7 O S



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

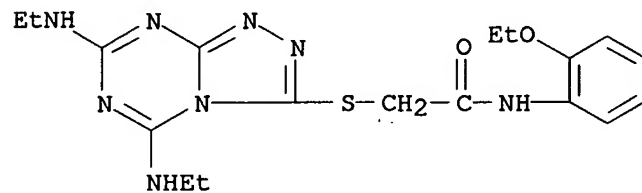


10/781,956

L3 10 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN Acetamide, 2-[[5,7-bis(ethylamino)-1,2,4-triazolo[4,3-a][1,3,5]triazin-3-yl]thio]-N-(2-ethoxyphenyl)- (9CI)

MF C18 H24 N8 O2 S



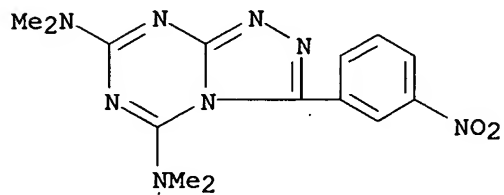
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

10/781,956

L3 10 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, N,N,N',N'-tetramethyl-3-(3-nitrophenyl)- (9CI)

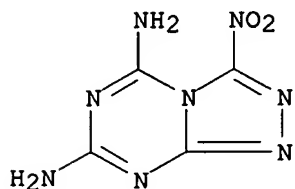
MF C14 H16 N8 O2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

10/781,956

L3 10 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN  
IN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, 3-nitro- (9CI)  
MF C4 H4 N8 O2



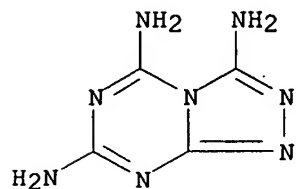
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

10/781,956

L3 10 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN

IN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine, monohydrochloride  
(9CI)

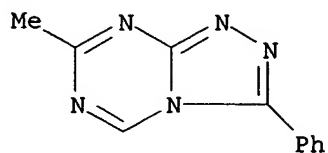
MF C4 H6 N8 . Cl H



● HCl

10/781,956

L3 10 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN  
IN s-Triazolo[4,3-a]-s-triazine, 7-methyl-3-phenyl- (8CI)  
MF C11 H9 N5



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

10/781,956

=> s l1 sss ful  
FULL SEARCH INITIATED 14:01:42 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 1230 TO ITERATE

100.0% PROCESSED 1230 ITERATIONS 149 ANSWERS  
SEARCH TIME: 00.00.01

L4 149 SEA SSS FUL L1

| => file caplus       | SINCE FILE | TOTAL   |
|----------------------|------------|---------|
| COST IN U.S. DOLLARS | ENTRY      | SESSION |
| FULL ESTIMATED COST  | 148.15     | 148.36  |

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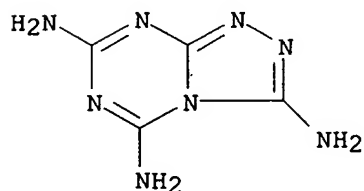
FILE COVERS 1907 - 27 Sep 2003 VOL 139 ISS 14  
FILE LAST UPDATED: 26 Sep 2003 (20030926/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

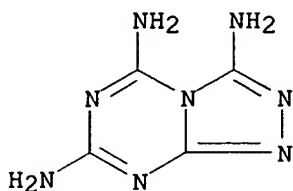
=> s l4  
L5 39 L4  
  
=> d 1-39 bib hitstr

L5 ANSWER 1 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2003:282119 CAPLUS  
 DN 138:287703  
 TI Preparation of 1,2,4-triazolo[4,3-a][1,3,5]triazine-3,5,7-substituted  
 precursor and its compounds  
 IN Sitzmann, Michael E.  
 PA USA  
 SO U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. Ser. No. 874,946.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 4

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | US 2003069247   | A1   | 20030410 | US 2002-181149  | 20020710 |
|      | US 6423844  | B1   | 20020723 | US 2001-874946  | 20010606 |
|      | WO 2002098855   | A2   | 20021212 | WO 2002-US17564 | 20020531 |
|      | WO 2002098855   | A3   | 20030313 |                 |          |
|      | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,<br>CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,<br>GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,<br>LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,<br>PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,<br>UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,<br>TJ, TM<br>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,<br>CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,<br>BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG |      |          |                 |          |
| PRAI | US 2001-874946  | A2   | 20010606 |                 |          |
|      | WO 2002-US17564   | W    | 20020531 |                 |          |
| OS   | MARPAT 138:287703   |      |          |                 |          |
| IT   | <b>7144-22-1P 485318-08-9P</b>  |      |          |                 |          |
|      | RL: RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or<br>engineered material use); PREP (Preparation); RACT (Reactant or reagent);<br>USES (Uses)<br>(preparation of triazolotriazinetriamine and triazolo-tetrazino-<br>aminotriazine derivs. as energetic materials for pyrotechnic compns.)   |      |          |                 |          |
| RN   | 7144-22-1 CAPLUS  |      |          |                 |          |
| CN   | 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine (9CI) (CA INDEX NAME)   |      |          |                 |          |



RN 485318-08-9 CAPLUS  
 CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine, monohydrochloride,  
 monohydrate (9CI) (CA INDEX NAME)



● HCl

● H<sub>2</sub>O

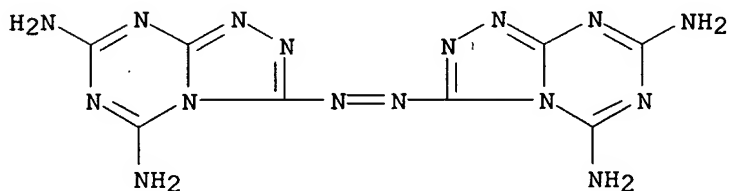
IT 485319-37-7P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation of triazolotriazinetriamine and triazolo-tetrazino-aminotriazine derivs. as energetic materials for pyrotechnic compns.)

RN 485319-37-7 CAPLUS

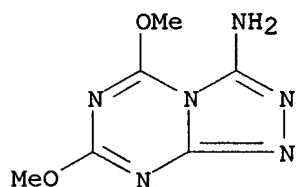
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, 3,3'-azobis- (9CI) (CA INDEX NAME)



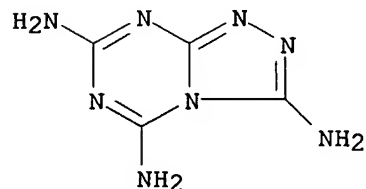


L5 ANSWER 2 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2003:43052 CAPLUS  
 DN 138:92349  
 TI Synthesis and properties of substituted 1,2,4-triazolo[4,3-a][1,3,5]triazines as candidate explosives and pyrotechnics  
 IN Koppes, William M.; Sitzmann, Michael E.  
 PA USA  
 SO U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. 6,423,844.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 4

|      | PATENT NO.   | KIND   | DATE     | APPLICATION NO. | DATE     |
|------|--|--------|----------|-----------------|----------|
| PI   | US 2003013878  | A1     | 20030116 | US 2002-171114  | 20020614 |
|      | US 6423844   | B1     | 20020723 | US 2001-874946  | 20010606 |
| PRAI | US 2001-874946   | A2     | 20010606 |                 |          |
| OS   | MARPAT 138:92349   |        |          |                 |          |
| IT   | <b>485319-38-8</b>   |        |          |                 |          |
|      | RL: MSC (Miscellaneous)  |        |          |                 |          |
|      | (synthesis and properties of substituted 1,2,4-triazolo[4,3-a][1,3,5]triazines as candidate explosives and pyrotechnics) |        |          |                 |          |
| RN   | 485319-38-8  | CAPLUS |          |                 |          |
| CN   | 1,2,4-Triazolo[4,3-a][1,3,5]triazin-3-amine, 5,7-dimethoxy- (9CI) (CA INDEX NAME)  |        |          |                 |          |

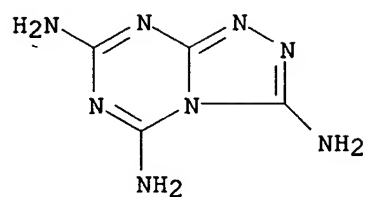


IT **7144-22-1DP**, 1,2,4-Triazolo[4,3-a][1,3,5]-triazine-3,5,7-triamine, salts **7144-22-1P**, 1,2,4-Triazolo[4,3-a][1,3,5]-triazine-3,5,7-triamine **485318-08-9P** **485319-37-7P**  
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
 (synthesis and properties of substituted 1,2,4-triazolo[4,3-a][1,3,5]triazines as candidate explosives and pyrotechnics)  
 RN 7144-22-1 CAPLUS  
 CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine (9CI) (CA INDEX NAME)



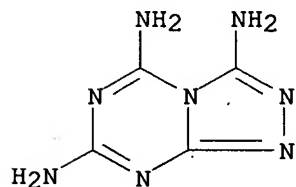
RN 7144-22-1 CAPLUS  
 CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine (9CI) (CA INDEX NAME)

10/781,956



RN 485318-08-9 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine, monohydrochloride, monohydrate (9CI) (CA INDEX NAME)

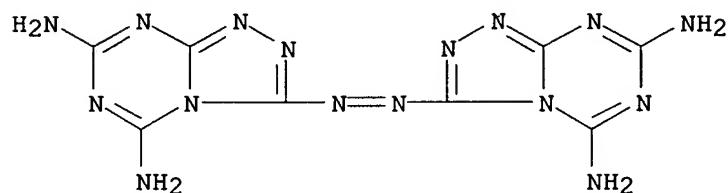


● HCl

● H<sub>2</sub>O

RN 485319-37-7 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, 3,3'-azobis- (9CI) (CA INDEX NAME)



L5 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2003:43051 CAPLUS

DN 138:92351

TI Synthesis and properties of substituted 1,2,4-triazolo[4,3-a][1,3,5]triazines and triazine metal complexes as candidate explosives and pyrotechnics

IN Koppes, William M.; Sitzmann, Michael E.

PA USA

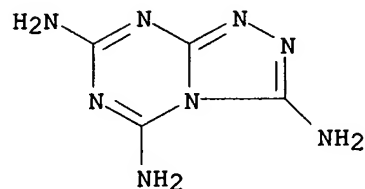
SO U.S. Pat. Appl. Publ., 10 pp., Cont.-in-part of U. S. 6,423,844.  
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 4

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | US 2003013877   | A1   | 20030116 | US 2002-171134  | 20020614 |
|      | US 6602366  | B2   | 20030805 |                 |          |
|      | US 6423844  | B1   | 20020723 | US 2001-874946  | 20010606 |
| PRAI | US 2001-874946  | A2   | 20010606 |                 |          |
| IT   | <b>7144-22-1P</b> , 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine   |      |          |                 |          |
| RL:  | PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (diazotization of; synthesis and properties of substituted 1,2,4-triazolo[4,3-a][1,3,5]triazines and triazine metal complexes as candidate explosives and pyrotechnics) |      |          |                 |          |
| RN   | 7144-22-1 CAPLUS  |      |          |                 |          |
| CN   | 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine (9CI) (CA INDEX NAME)   |      |          |                 |          |



IT **485318-08-9P**

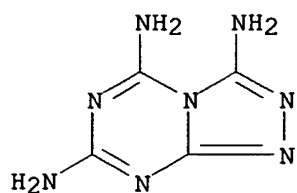
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis and properties of substituted 1,2,4-triazolo[4,3-a][1,3,5]triazines and triazine metal complexes as candidate explosives and pyrotechnics)

RN 485318-08-9 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine, monohydrochloride, monohydrate (9CI) (CA INDEX NAME)

10/781,956

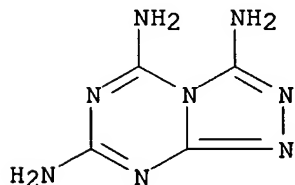


● HCl

● H<sub>2</sub>O

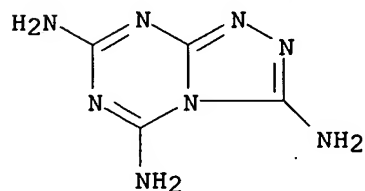
L5 ANSWER 4 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 2002:551626 CAPLUS  
 DN 137:109297  
 TI Preparation of 1,2,4-triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine acid salts from 2,4-diamino-6-hydrazino-s-triazine and cyanogen bromide.  
 IN Koppes, William M.; Sitzmann, Michael E.  
 PA The United States of America as Represented by the Secretary of the Navy, USA  
 SO U.S., 4 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 4

|      | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|------|--|------|----------|-----------------|----------|
| PI   | US 6423844   | B1   | 20020723 | US 2001-874946  | 20010606 |
|      | WO 2002098855  | A2   | 20021212 | WO 2002-US17564 | 20020531 |
|      | WO 2002098855  | A3   | 20030313 |                 |          |
|      | W:   |      |          |                 |          |
|      | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |      |          |                 |          |
|      | RW:  |      |          |                 |          |
|      | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |      |          |                 |          |
|      | US 2003013878  | A1   | 20030116 | US 2002-171114  | 20020614 |
|      | US 2003013877  | A1   | 20030116 | US 2002-171134  | 20020614 |
|      | US 6602366   | B2   | 20030805 |                 |          |
|      | US 2003069247  | A1   | 20030410 | US 2002-181149  | 20020710 |
| PRAI | US 2001-874946   | A    | 20010606 |                 |          |
|      | WO 2002-US17564  | W    | 20020531 |                 |          |
| OS   | CASREACT 137:109297; MARPAT 137:109297   |      |          |                 |          |
| IT   | 443288-50-4P, 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine hydrochloride hydrate  |      |          |                 |          |
|      | RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of triazolotriazinetriamine acid salts from diaminohydrazinotriazine and cyanogen bromide)  |      |          |                 |          |
| RN   | 443288-50-4 CAPLUS   |      |          |                 |          |
| CN   | 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine, monohydrochloride (9CI) (CA INDEX NAME)   |      |          |                 |          |

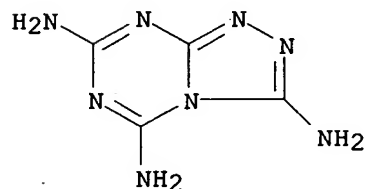


● HCl

IT **7144-22-1DP**, 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine,  
salts  
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP  
(Preparation)  
(preparation of triazolotriazinetriamine acid salts from  
diaminohydrazinotriazine and cyanogen bromide)  
RN 7144-22-1 CAPLUS  
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine (9CI) (CA INDEX NAME)



IT **7144-22-1P**, 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of triazolotriazinetriamine acid salts from  
diaminohydrazinotriazine and cyanogen bromide)  
RN 7144-22-1 CAPLUS  
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine (9CI) (CA INDEX NAME)



RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:10436 CAPLUS

DN 136:85724

TI Synthesis and antibacterial activity of cephalosporin derivatives

IN Cho, Yang-Rae; Lee, Chang-Seok; Oh, Seong-Ho; Ryu, Eun-Jung; Paek, Kyoung-Sook; Youn, Ha-Sik; Jang, Yong-Jin; Kim, Geun-Tae

PA LG Chem Investment Ltd., S. Korea

SO PCT Int. Appl., 49 pp.

CODEN: PIXXD2

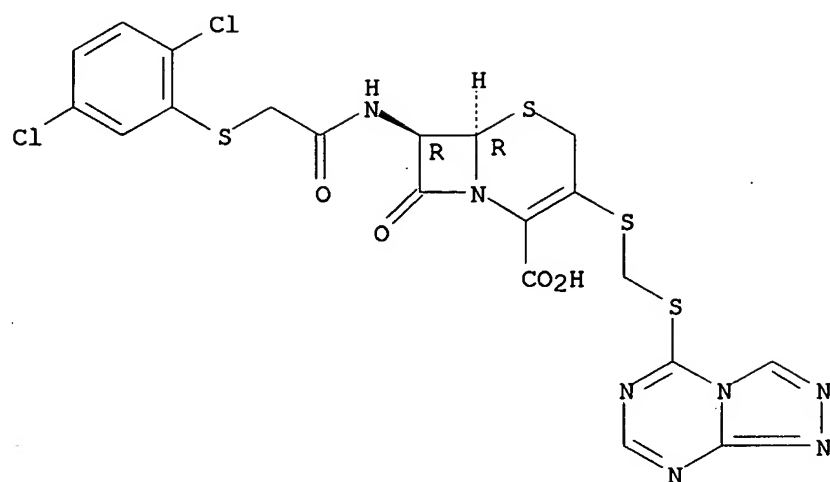
DT Patent

LA English

FAN.CNT 1

|      | PATENT NO.   | KIND   | DATE     | APPLICATION NO. | DATE     |
|------|--|--|----------|-----------------|----------|
| PI   | WO 2002000616  | A2   | 20020103 | WO 2001-KR1020  | 20010614 |
|      | WO 2002000616  | A3   | 20020627 |                 |          |
|      | W:   | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |          |                 |          |
|      | RW:  | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG   |          |                 |          |
|      | AU 2001064379  | A5   | 20020108 | AU 2001-64379   | 20010614 |
|      | EP 1294730   | A2   | 20030326 | EP 2001-938803  | 20010614 |
|      | R:   | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR   |          |                 |          |
|      | US 2003166922  | A1   | 20030904 | US 2002-276960  | 20021121 |
| PRAI | KR 2000-35834  | A  | 20000628 |                 |          |
|      | WO 2001-KR1020   | W  | 20010614 |                 |          |
| OS   | MARPAT 136:85724   |  |          |                 |          |
| IT   | <b>385778-42-7P</b>  |  |          |                 |          |
|      | RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)   |  |          |                 |          |
|      | (preparation and antibacterial activity of cephalosporin derivs.)  |  |          |                 |          |
| RN   | 385778-42-7 CAPLUS   |  |          |                 |          |
| CN   | 5-Thia-1-azabicyclo[4.2.0]octane-2-carboxylic acid, 7-[[[(2,5-dichlorophenyl)thio]acetyl]amino]-8-oxo-3-[[[(1,2,4-triazolo[4,3-a][1,3,5]triazin-5-ylthio)methyl]thio]-, (6R,7R)- (9CI) (CA INDEX NAME) |  |          |                 |          |

Absolute stereochemistry.





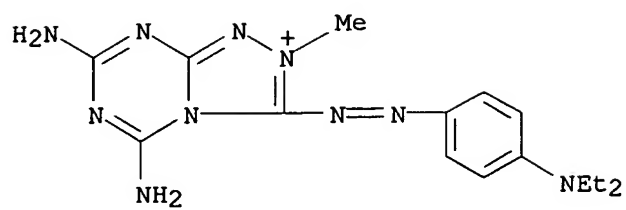
10/781,956

L5 ANSWER 6 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2001:691722 CAPLUS  
DN 135:261999  
TI Hair dye composition  
IN Ohashi, Yukihiro; Miyabe, Hajime; Matsunaga, Kenichi; Totoki, Shintaro;  
Saito, Yoshinori  
PA Kao Corporation, Japan  
SO Eur. Pat. Appl., 113 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | EP 1133975  | A2   | 20010919 | EP 2001-106318  | 20010315 |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO  |      |          |                 |          |
|      | JP 2001261534   | A2   | 20010926 | JP 2000-76638   | 20000317 |
|      | JP 2001288055   | A2   | 20011016 | JP 2000-107180  | 20000407 |
|      | JP 2001288056   | A2   | 20011016 | JP 2000-107188  | 20000407 |
|      | JP 2001288058   | A2   | 20011016 | JP 2000-107189  | 20000407 |
|      | JP 2001288059   | A2   | 20011016 | JP 2000-107190  | 20000407 |
|      | JP 2001328925   | A2   | 20011127 | JP 2000-107178  | 20000407 |
|      | JP 2001328929   | A2   | 20011127 | JP 2000-107187  | 20000407 |
|      | JP 2001328930   | A2   | 20011127 | JP 2000-193184  | 20000627 |
|      | JP 2002012524   | A2   | 20020115 | JP 2000-193177  | 20000627 |
|      | JP 2002012525   | A2   | 20020115 | JP 2000-193178  | 20000627 |
|      | JP 2002012532   | A2   | 20020115 | JP 2000-193180  | 20000627 |
|      | JP 2002012529   | A2   | 20020115 | JP 2000-193181  | 20000627 |
|      | JP 2002012527   | A2   | 20020115 | JP 2000-193188  | 20000627 |
| PRAI | JP 2000-76009   | A    | 20000317 |                 |          |
|      | JP 2000-76637   | A    | 20000317 |                 |          |
|      | JP 2000-76638   | A    | 20000317 |                 |          |
|      | JP 2000-76668   | A    | 20000317 |                 |          |
|      | JP 2000-107178  | A    | 20000407 |                 |          |
|      | JP 2000-107180  | A    | 20000407 |                 |          |
|      | JP 2000-107187  | A    | 20000407 |                 |          |
|      | JP 2000-107188  | A    | 20000407 |                 |          |
|      | JP 2000-107189  | A    | 20000407 |                 |          |
|      | JP 2000-107190  | A    | 20000407 |                 |          |
|      | JP 2000-193177  | A    | 20000627 |                 |          |
|      | JP 2000-193178  | A    | 20000627 |                 |          |
|      | JP 2000-193180  | A    | 20000627 |                 |          |
|      | JP 2000-193181  | A    | 20000627 |                 |          |
|      | JP 2000-193184  | A    | 20000627 |                 |          |
|      | JP 2000-193188  | A    | 20000627 |                 |          |
| OS   | MARPAT 135:261999   |      |          |                 |          |
| IT   | 35894-58-7  |      |          |                 |          |
|      | RL: BUU (Biological use, unclassified); BIOL (Biological study); USES<br>(Uses)<br>(hair dye composition)                               |      |          |                 |          |
| RN   | 35894-58-7 CAPLUS   |      |          |                 |          |
| CN   | 1,2,4-Triazolo[4,3-a][1,3,5]triazinium, 5,7-diamino-3-[[4-<br>(diethylamino)phenyl]azo]-2-methyl-, methyl sulfate (9CI) (CA INDEX NAME) |      |          |                 |          |
| CM   | 1   |      |          |                 |          |
| CRN  | 50565-99-6  |      |          |                 |          |

10/781,956

CMF C15 H21 N10



CM 2

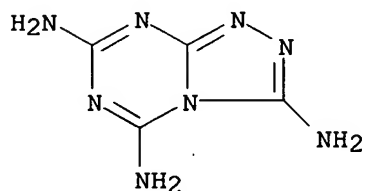
CRN 21228-90-0

CMF C H3 O4 S

Me<sup>-</sup> O<sup>-</sup> SO<sub>3</sub><sup>-</sup>

10/781,956

L5 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2001:59890 CAPLUS  
DN 134:292357  
TI Docking molecules by families to increase the diversity of hits in  
database screens: computational strategy and experimental evaluation  
AU Su, Andrew I.; Lorber, David M.; Weston, G. Scott; Baase, Walter A.;  
Matthews, Brian W.; Shoichet, Brian K.  
CS Department of Molecular Pharmacology & Biological Chemistry, Northwestern  
University, Chicago, IL, 60611-3008, USA  
SO Proteins: Structure, Function, and Genetics (2001), '42(2), 279-293  
CODEN: PSFGEY; ISSN: 0887-3585  
PB Wiley-Liss, Inc.  
DT Journal  
LA English  
IT 7144-22-1  
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP  
(Properties); BIOL (Biological study); PROC (Process)  
(method for evaluation of mol. docking screens of chemical databases for  
anal. of ligands for protein binding sites)  
RN 7144-22-1 CAPLUS  
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine (9CI) (CA INDEX NAME)



RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/781,956

L5 ANSWER 8 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2000:623656 CAPLUS

DN 133:179919

TI Nitrogen-containing heterocyclic compounds as potential stabilizers for ammonium dinitramide (ADN) oxidant in energetic formulations

IN Ciaramitaro, David A.; Reed, Russell

PA United States Dept. of the Navy, USA

SO U.S., 12 pp.

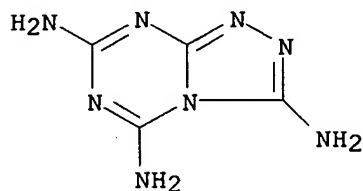
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

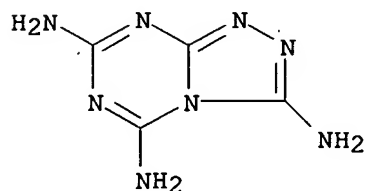
|      | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|------|--|------|----------|-----------------|----------|
| PI   | US 6113712   | A    | 20000905 | US 1998-226616  | 19981222 |
| PRAI | US 1998-226616   |      | 19981222 |                 |          |
| IT   | 7144-22-1, 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine<br>RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)<br>(stabilizer; nitrogen-containing heterocyclic compds. as potential<br>stabilizers for ammonium dinitramide oxidant in energetic formulations) |      |          |                 |          |
| RN   | 7144-22-1 CAPLUS   |      |          |                 |          |
| CN   | 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine (9CI) (CA INDEX NAME)  |      |          |                 |          |



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/781,956

L5 ANSWER 9 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2000:96368 CAPLUS  
DN 132:237065  
TI Formation of 3,5-diamino-1,2,4-triazole and 3,5,7-triamino-1,2,4-triazolo[4,3-a]-1,3,5-triazine in melts of dicyandiamide and hydrazine salts  
AU Chernyshev, V. M.; Zemlyakov, N. D.; Taranushich, V. A.  
CS Novocherkass. Gos. Tekh. Univ., Russia  
SO Zhurnal Prikladnoi Khimii (Sankt-Peterburg) (1999), 72(10), 1685-1688  
CODEN: ZPKHAB; ISSN: 0044-4618  
PB Nauka  
DT Journal  
LA Russian  
IT 7144-22-1P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 7144-22-1 CAPLUS  
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine (9CI) (CA INDEX NAME)



10/781,956

L5 ANSWER 10 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1999:28085 CAPLUS

DN 130:99961

TI Multicomponent enzyme system for treating wastewaters especially from processing wood, pulp, and paper and for organic syntheses and coal liquefaction.

IN Call, Hans-Peter

PA Call, Krimhild, Germany

SO Ger. Offen., 54 pp.

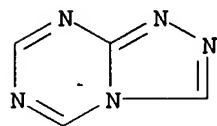
CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO.  | DATE     |
|------|---|------|----------|------------------|----------|
| PI   | DE 19726241   | A1   | 19981224 | DE 1997-19726241 | 19970620 |
|      | WO 9901607  | A2   | 19990114 | WO 1998-DE1694   | 19980619 |
|      | WO 9901607  | A3   | 19990624 |                  |          |
|      | W: BR, CA, FI, JP, US   |      |          |                  |          |
|      | RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE  |      |          |                  |          |
| PRAI | DE 1997-19726241  |      | 19970620 |                  |          |
| OS   | MARPAT 130:99961  |      |          |                  |          |
| IT   | 274-99-7, [1,2,4]Triazolo[4,3-a][1,3,5]triazine   |      |          |                  |          |
|      | RL: NUU (Other use, unclassified); USES (Uses)  |      |          |                  |          |
|      | (multicomponent enzyme system for treating wastewaters especially from processing wood, pulp, and paper and for organic syntheses and coal liquefaction.) |      |          |                  |          |
| RN   | 274-99-7 CAPLUS   |      |          |                  |          |
| CN   | 1,2,4-Triazolo[4,3-a][1,3,5]triazine (9CI) (CA INDEX NAME)  |      |          |                  |          |

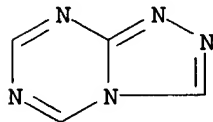


10/781,956

L5 ANSWER 11 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1998:31384 CAPLUS  
DN 128:90358  
TI Multicomponent bleaching system for use with detergents  
IN Call, Hans-Peter  
PA Call, Hans-Peter, Germany  
SO PCT Int. Appl., 68 pp.  
CODEN: PIXXD2  
DT Patent  
LA German

FAN.CNT 1

|      | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|------|--|------|----------|-----------------|----------|
| PI   | WO 9748786   | A1   | 19971224 | WO 1996-EP2658  | 19960619 |
|      | W: AU, BR, CA, CZ, FI, HU, JP, LK, NO, SK, US                          |      |          |                 |          |
|      | RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE |      |          |                 |          |
|      | AU 9663578   | A1   | 19980107 | AU 1996-63578   | 19960619 |
|      | EP 845026  | A1   | 19980603 | EP 1996-922848  | 19960619 |
|      | R: CH, DE, DK, ES, FR, GB, IT, LI, NL, FI                              |      |          |                 |          |
| PRAI | WO 1996-EP2658   |      | 19960619 |                 |          |
| OS   | MARPAT 128:90358   |      |          |                 |          |
| IT   | 274-99-7, [1,2,4]Triazolo[4,3-a][1,3,5]triazine                        |      |          |                 |          |
|      | RL: MOA (Modifier or additive use); USES (Uses)                        |      |          |                 |          |
|      | (mediators; multicomponent bleaching system for use with detergents)   |      |          |                 |          |
| RN   | 274-99-7 CAPLUS  |      |          |                 |          |
| CN   | 1,2,4-Triazolo[4,3-a][1,3,5]triazine (9CI) (CA INDEX NAME)             |      |          |                 |          |



L5 ANSWER 12 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1996:504125 CAPLUS

DN 125:145468

TI Multicomponent system for modifying, decomposing or bleaching lignin, lignin-containing materials or similar substances, as well as a process for its use

IN Call, Hans-Peter

PA Lignozym Gmbh, Germany

SO PCT Int. Appl., 82 pp.

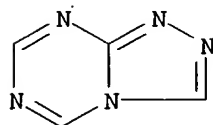
CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 3

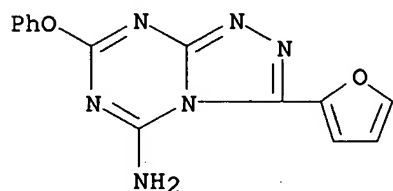
|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | WO 9618770  | A2   | 19960620 | WO 1995-EP4965  | 19951215 |
|      | WO 9618770  | A3   | 19960822 |                 |          |
|      | W: AU, BR, CN, CZ, FI, HU, JP, KR, NO, NZ, PL, RU, SK, UA   |      |          |                 |          |
|      | RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE                                      |      |          |                 |          |
|      | EP 717143   | A1   | 19960619 | EP 1994-119981  | 19941216 |
|      | R: DE   |      |          |                 |          |
|      | CA 2164394  | AA   | 19960617 | CA 1995-2164394 | 19951204 |
|      | AU 9645350  | A1   | 19960703 | AU 1996-45350   | 19951215 |
|      | AU 688660   | B2   | 19980312 |                 |          |
|      | EP 745154   | A1   | 19961204 | EP 1995-944012  | 19951215 |
|      | EP 745154   | B1   | 19980916 |                 |          |
|      | R: AT, BE, DE, DK, ES, FR, GB, NL, PT, SE   |      |          |                 |          |
|      | CN 1142255  | A    | 19970205 | CN 1995-191657  | 19951215 |
|      | JP 09503257   | T2   | 19970331 | JP 1995-518274  | 19951215 |
|      | HU 76126  | A2   | 19970630 | HU 1996-2270    | 19951215 |
|      | HU 215542   | B    | 19990128 |                 |          |
|      | BR 9506801  | A    | 19980630 | BR 1995-6801    | 19951215 |
|      | AT 171228   | E    | 19981015 | AT 1995-944012  | 19951215 |
|      | ES 2122722  | T3   | 19981216 | ES 1995-944012  | 19951215 |
|      | RU 2142479  | C1   | 19991210 | RU 1996-118245  | 19951215 |
|      | JP 3107828  | B2   | 20001113 | JP 1996-518274  | 19951215 |
|      | NO 9603410  | A    | 19961015 | NO 1996-3410    | 19960815 |
|      | FI 9603210  | A    | 19960816 | FI 1996-3210    | 19960816 |
| PRAI | EP 1994-119981  | A    | 19941216 |                 |          |
|      | DE 1993-4319696   |      | 19930616 |                 |          |
|      | WO 1995-EP4965  | W    | 19951215 |                 |          |
| OS   | MARPAT 125:145468   |      |          |                 |          |
| IT   | 274-99-7, [1,2,4]Triazolo[4,3-a][1,3,5]triazine   |      |          |                 |          |
|      | RL: NUU (Other use, unclassified); USES (Uses)  |      |          |                 |          |
|      | (multicomponent system for modifying or decomposing or bleaching lignin or lignin-containing materials) |      |          |                 |          |
| RN   | 274-99-7 CAPLUS   |      |          |                 |          |
| CN   | 1,2,4-Triazolo[4,3-a][1,3,5]triazine (9CI) (CA INDEX NAME)  |      |          |                 |          |



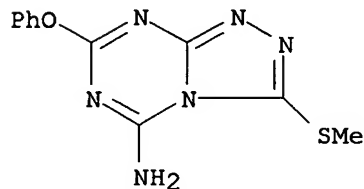


10/781,956

L5 ANSWER 13 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1995:517839 CAPLUS  
 DN 123:228139  
 TI Adenine isosteres with bridgehead nitrogen. Part 1. Two independent syntheses of the [1,2,4]triazolo[1,5-a][1,3,5]triazine ring system leading to a range of substituents in the 2, 5 and 7 positions  
 AU Caulkett, Peter W. R.; Jones, Geraint; McPartlin, Mary; Renshaw, Nigel D.; Stewart, Sarah K.; Wright, Brian  
 CS ZENECA Pharmaceuticals plc, Mereside, Macclesfield, SK10 4TG, UK  
 SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1995), (7), 801-8  
 CODEN: JCPRB4; ISSN: 0300-922X  
 PB Royal Society of Chemistry  
 DT Journal  
 LA English  
 IT **139181-29-6P 168211-32-3P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of adenine isosteres)  
 RN 139181-29-6 CAPLUS  
 CN 1,2,4-Triazolo[4,3-a][1,3,5]triazin-5-amine, 3-(2-furanyl)-7-phenoxy-  
 (9CI) (CA INDEX NAME)

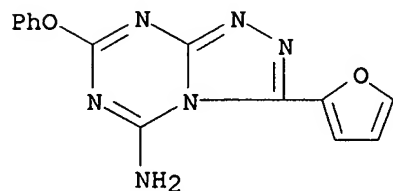


RN 168211-32-3 CAPLUS  
 CN 1,2,4-Triazolo[4,3-a][1,3,5]triazin-5-amine, 3-(methylthio)-7-phenoxy-  
 (9CI) (CA INDEX NAME)



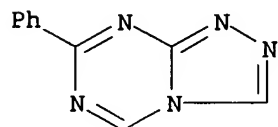
L5 ANSWER 14 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1995:444109 CAPLUS  
 DN 122:214109  
 TI Morpholinyl substituted [1,2,4]-triazolo[1,5-a]triazines and analogs as adenosine antagonists  
 IN Rodney, Peter W.; Jones, Geraint; Collis, Michael G.; Poucher, Simon M.  
 PA UK  
 SO U.S., 31 pp. Cont.-in-part of U.S. 5,270,311.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 FAN.CNT 3

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | US 5356894  | A    | 19941018 | US 1993-94572   | 19930721 |
|      | US 5270311  | A    | 19931214 | US 1991-708265  | 19910528 |
|      | PL 167014   | B1   | 19950731 | PL 1991-290445  | 19910528 |
|      | CN 1056879  | A    | 19911211 | CN 1991-103744  | 19910529 |
|      | ZA 9104094  | A    | 19920226 | ZA 1991-4094    | 19910529 |
| PRAI | GB 1990-11913   | A    | 19900529 |                 |          |
|      | GB 1990-11914   | A    | 19900529 |                 |          |
|      | GB 1991-1379  | A    | 19910122 |                 |          |
|      | GB 1991-1380  | A    | 19910122 |                 |          |
|      | GB 1991-4125  | A    | 19910227 |                 |          |
|      | US 1991-708265  | A2   | 19910528 |                 |          |
|      | GB 1992-26735   | A    | 19921222 |                 |          |
| OS   | MARPAT 122:214109   |      |          |                 |          |
| IT   | 139181-29-6P  |      |          |                 |          |
|      | RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT<br>(Reactant or reagent)<br>(intermediate; preparation of triazolotriazines and analogs as adenosine antagonists) |      |          |                 |          |
| RN   | 139181-29-6 CAPLUS  |      |          |                 |          |
| CN   | 1,2,4-Triazolo[4,3-a][1,3,5]triazin-5-amine, 3-(2-furanyl)-7-phenoxy-<br>(9CI) (CA INDEX NAME)  |      |          |                 |          |



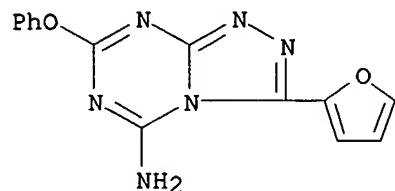
10/781,956

L5 ANSWER 15 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1993:101915 CAPLUS  
DN 118:101915  
TI Crystal and molecular structures of 7-phenyl-1,2,4-triazolo[1,5-a]-1,3,5-triazine  
AU Kurella, M. G.; Vorontsova, L. G.; Amamchyan, A. R.; Dorokhov, V. A.  
CS N. D. Zelinskii Inst. Org. Chem., Moscow, 117913, Russia  
SO Izvestiya Akademi Nauk, Seriya Khimicheskaya (1992), (6), 1386-9  
CODEN: IASKEA; ISSN: 1026-3500  
DT Journal  
LA Russian  
IT 145933-27-3P  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation and crystal and mol. structure of)  
RN 145933-27-3 CAPLUS  
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine, 7-phenyl- (9CI) (CA INDEX NAME)



L5 ANSWER 16 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1992:571476 CAPLUS  
 DN 117:171476  
 TI Preparation of (amino)heteroaryl[1,2,4]triazolo[1,5-a]triazines and  
 related compounds as adenosine A2 receptor antagonists  
 IN Caulkett, Peter William Rodney; Jones, Geraint; Collis, Michael George;  
 Poucher, Simon Martin  
 PA Imperial Chemical Industries PLC, UK  
 SO Eur. Pat. Appl., 53 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 3

|      | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|------|--|------|----------|-----------------|----------|
| PI   | EP 459702  | A1   | 19911204 | EP 1991-304665  | 19910523 |
|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE                                      |      |          |                 |          |
|      | GB 2244487   | A1   | 19911204 | GB 1991-11132   | 19910523 |
|      | GB 2244487   | B2   | 19940202 |                 |          |
|      | CA 2043424   | AA   | 19911130 | CA 1991-2043424 | 19910528 |
|      | FI 9102563   | A    | 19911130 | FI 1991-2563    | 19910528 |
|      | NO 9102051   | A    | 19911202 | NO 1991-2051    | 19910528 |
|      | NO 178401  | B    | 19951211 |                 |          |
|      | NO 178401  | C    | 19960320 |                 |          |
|      | AU 9177348   | A1   | 19911205 | AU 1991-77348   | 19910528 |
|      | AU 642494  | B2   | 19931021 |                 |          |
|      | RO 109542  | B1   | 19950330 | RO 1991-147639  | 19910528 |
|      | PL 167014  | B1   | 19950731 | PL 1991-290445  | 19910528 |
|      | CN 1056879   | A    | 19911211 | CN 1991-103744  | 19910529 |
|      | ZA 9104094   | A    | 19920226 | ZA 1991-4094    | 19910529 |
|      | HU 61311   | A2   | 19921228 | HU 1991-1789    | 19910529 |
|      | JP 05097855  | A2   | 19930420 | JP 1991-235332  | 19910529 |
|      | IL 98316   | A1   | 19950526 | IL 1991-98316   | 19910530 |
| PRAI | GB 1990-11913  | A    | 19900529 |                 |          |
|      | GB 1990-11914  | A    | 19900529 |                 |          |
|      | GB 1991-1379   | A    | 19910122 |                 |          |
|      | GB 1991-1380   | A    | 19910122 |                 |          |
|      | GB 1991-4125   | A    | 19910227 |                 |          |
| OS   | MARPAT 117:171476  |      |          |                 |          |
| IT   | <b>139181-29-6P</b>  |      |          |                 |          |
|      | RL: SPN (Synthetic preparation); PREP (Preparation)  |      |          |                 |          |
|      | (preparation of, as intermediate for adenosine A2 receptor antagonists)                        |      |          |                 |          |
| RN   | 139181-29-6 CAPLUS   |      |          |                 |          |
| CN   | 1,2,4-Triazolo[4,3-a][1,3,5]triazin-5-amine, 3-(2-furanyl)-7-phenoxy-<br>(9CI) (CA INDEX NAME) |      |          |                 |          |



L5 ANSWER 17 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1991:658289 CAPLUS

DN 115:258289

TI 5,7-Diamino-1,2,4-triazolo[4,3-a][1,3,5]triazine vat dyes, their preparation and use

IN Altermatt, Hans

PA Ciba-Geigy A.-G., Switz.

SO Ger. Offen., 7 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

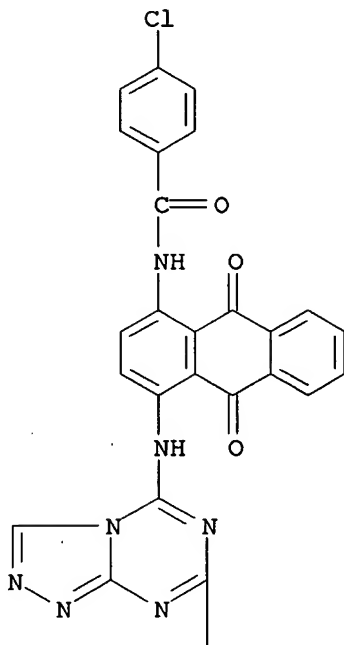
|      | PATENT NO.          | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---------------------|------|----------|-----------------|----------|
| PI   | DE 4037569          | A1   | 19910529 | DE 1990-4037569 | 19901126 |
| PRAI | CH 1989-4253        |      | 19891128 |                 |          |
| OS   | MARPAT 115:258289   |      |          |                 |          |
| IT   | <b>137249-90-2P</b> |      |          |                 |          |

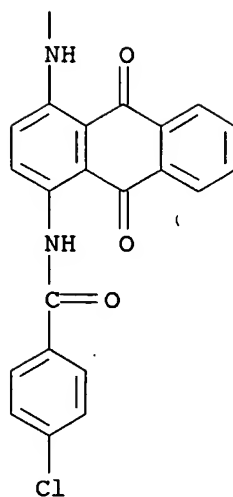
RL: IMF (Industrial manufacture); PREP (Preparation)  
(preparation of, as pigment for PVC)

RN 137249-90-2 CAPLUS

CN Benzamide, 4-chloro-N-[3-[[7-[[4-[(4-chlorobenzoyl)amino]-9,10-dihydro-9,10-dioxo-1-anthracenyl]amino]-1,2,4-triazolo[4,3-a][1,3,5]triazin-5-yl]amino]-9,10-dihydro-9,10-dioxo-1-anthracenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

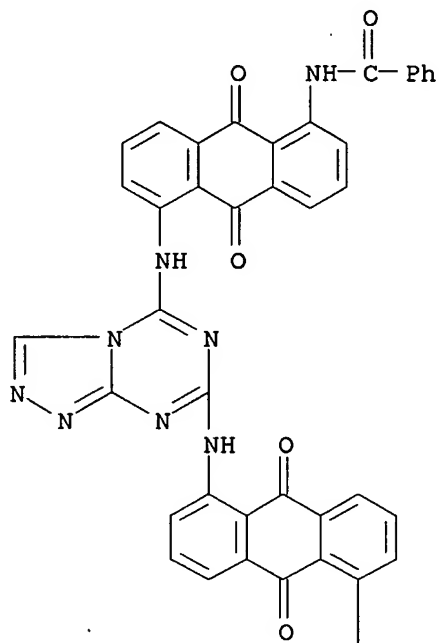


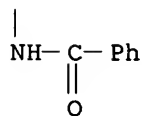


IT 137249-89-9P

RL: IMF (Industrial manufacture); PREP (Preparation)  
(preparation of, as vat dye)

RN 137249-89-9 CAPLUS

CN Benzamide, N,N'-[1,2,4-triazolo[4,3-a][1,3,5]triazine-5,7-  
diylbis[imino(9,10-dihydro-9,10-dioxo-5,1-anthracenediyl)]]bis- (9CI) (CA  
INDEX NAME)

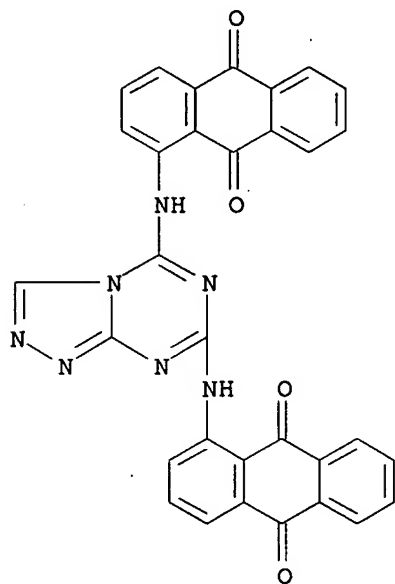


IT 137249-88-8P

RL: IMF (Industrial manufacture); PREP (Preparation)  
 (preparation of, as vat dye for cotton and pigment for coatings)

RN 137249-88-8 CAPLUS

CN 9,10-Anthracenedione, 1,1'-(1,2,4-triazolo[4,3-a][1,3,5]triazine-5,7-diyl-diimino)bis- (9CI) (CA INDEX NAME)

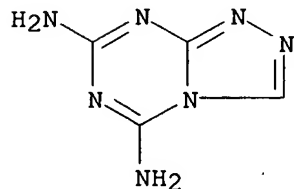


IT 23244-86-2

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with chloroanthraquinones)

RN 23244-86-2 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine (9CI) (CA INDEX NAME)





L5 ANSWER 18 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1984:530664 CAPLUS

DN 101:130664

TI Triazines and related products. Part 26. Synthesis and chemistry of bicyclic analogs of the antitumor drug 2,4,6-tris(dimethylamino)-1,3,5-triazine (hexamethylmelamine)

AU Langdon, Simon P.; Simmonds, Richard J.; Stevens, Malcolm F. G.

CS Dep. Pharm., Univ. Aston, Birmingham, B4 7ET, UK

SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1984), (5), 993-8

CODEN: JCPRB4; ISSN: 0300-922X

DT Journal

LA English

OS CASREACT 101:130664

IT 54807-10-2P 91892-46-5P 91892-47-6P

91892-48-7P 91892-49-8P 91892-50-1P

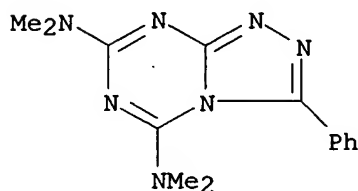
91892-51-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and rearrangement of)

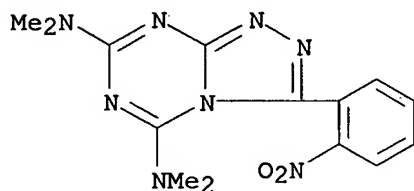
RN 54807-10-2 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, N,N,N',N'-tetramethyl-3-phenyl- (9CI) (CA INDEX NAME)



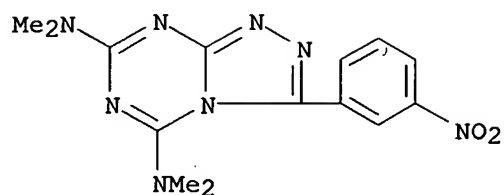
RN 91892-46-5 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, N,N,N',N'-tetramethyl-3-(2-nitrophenyl)- (9CI) (CA INDEX NAME)



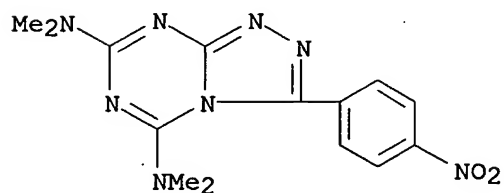
RN 91892-47-6 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, N,N,N',N'-tetramethyl-3-(3-nitrophenyl)- (9CI) (CA INDEX NAME)



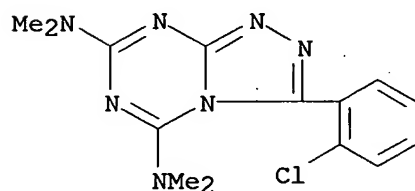
RN 91892-48-7 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, N,N,N',N'-tetramethyl-3-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



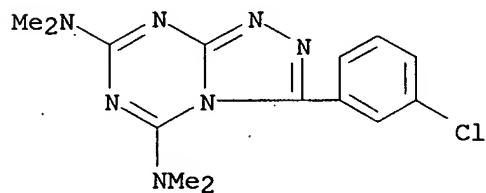
RN 91892-49-8 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, 3-(2-chlorophenyl)-N,N,N',N'-tetramethyl- (9CI) (CA INDEX NAME)



RN 91892-50-1 CAPLUS

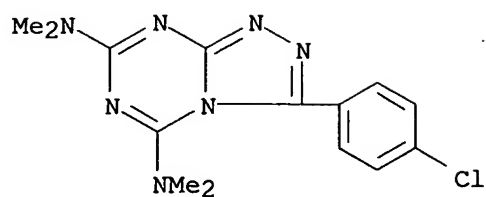
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, 3-(4-chlorophenyl)-N,N,N',N'-tetramethyl- (9CI) (CA INDEX NAME)



RN 91892-51-2 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, 3-(4-chlorophenyl)-N,N,N',N'-tetramethyl- (9CI) (CA INDEX NAME)

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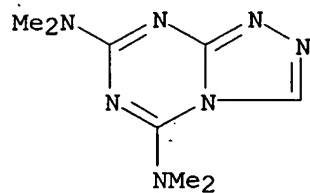


IT 54807-11-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, by intramol. cyclocondensation of  
bis(dimethylamino) (formylhydrazino) triazine)

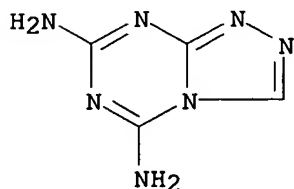
RN 54807-11-3 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, N,N,N',N'-tetramethyl-  
(9CI) (CA INDEX NAME)

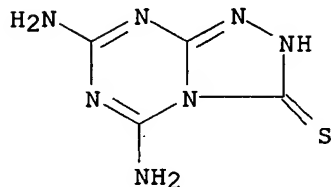


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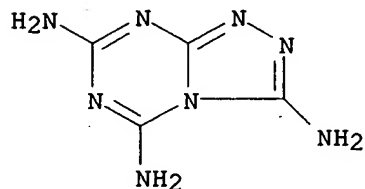
L5 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1984:34469 CAPLUS  
DN 100:34469  
TI Reaction of aminoguanidine salts with carbon disulfide and aromatic and  
aliphatic isothiocyanates  
AU Dobosz, Maria  
CS Inst. Fundam. Chem., Med. Acad., Lublin, Pol.  
SO Annales Universitatis Mariae Curie-Sklodowska, Sectio AA: Chemia (1982),  
Volume Date 1980, 35, 49-62  
CODEN: AUMCD7; ISSN: 0137-6853  
DT Journal  
LA Polish  
OS CASREACT 100:34469  
IT 23244-86-2P 88312-59-8P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 23244-86-2 CAPLUS  
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine (9CI) (CA INDEX NAME)



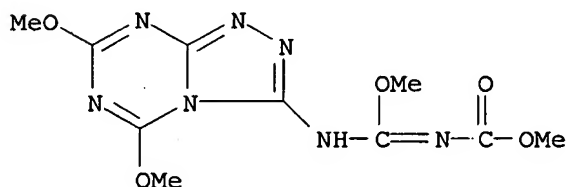
RN 88312-59-8 CAPLUS  
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3(2H)-thione, 5,7-diamino- (9CI) (CA  
INDEX NAME)



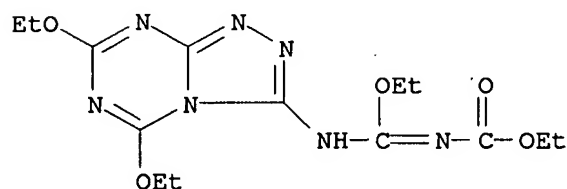
L5 ANSWER 20 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1981:84072 CAPLUS  
DN 94:84072  
TI Condensation of 3,6,7-triamino-7H-s-triazolo[5,1-c]-s-triazole with  
 $\alpha$ - and  $\beta$ -diketones and 3,5,7-triamino-s-triazolo[4,3-a]-s-  
triazine with  $\beta$ -diketones  
AU Chuiguk, V. A.; Fedotov, K. V.  
CS Kiev. Gos. Univ., Kiev, USSR  
SO Ukrainskii Khimicheskii Zhurnal (Russian Edition) (1980), 46(10), 1092-4  
CODEN: UKZHAU; ISSN: 0041-6045  
DT Journal  
LA Russian  
IT 7144-22-1  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclocondensation of, with  $\beta$ -diketones)  
RN 7144-22-1 CAPLUS  
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine (9CI) (CA INDEX NAME)



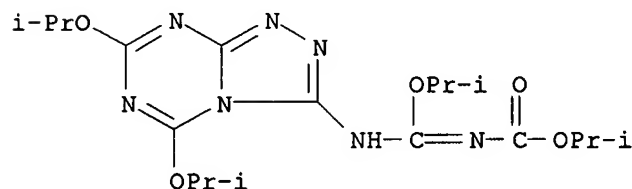
L5 ANSWER 21 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1979:455885 CAPLUS  
 DN 91:55885  
 TI Photolyses of azidotriazines in organic nitro compounds  
 AU Goka, Tsuruji; Hashida, Yoji; Matsui, Kohji  
 CS Fac. Eng., Gunma Univ., Kiryu, 376, Japan  
 SO Bulletin of the Chemical Society of Japan (1979), 52(4), 1231-2  
 CODEN: BCSJA8; ISSN: 0009-2673  
 DT Journal  
 LA English  
 IT 70735-75-0P 70735-76-1P 70735-77-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 70735-75-0 CAPLUS  
 CN Carbamic acid, [[(5,7-dimethoxy-1,2,4-triazolo[4,3-a][1,3,5]triazin-3-yl)amino]methoxymethylene]-, methyl ester (9CI) (CA INDEX NAME)



RN 70735-76-1 CAPLUS  
 CN Carbamic acid, [[(5,7-diethoxy-1,2,4-triazolo[4,3-a][1,3,5]triazin-3-yl)amino]ethoxymethylene]-, ethyl ester (9CI) (CA INDEX NAME)

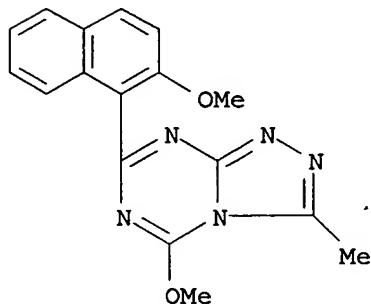


RN 70735-77-2 CAPLUS  
 CN Carbamic acid, [[[5,7-bis(1-methylethoxy)-1,2,4-triazolo[4,3-a][1,3,5]triazin-3-yl]amino](1-methylethoxy)methylene]-, 1-methylethyl ester (9CI) (CA INDEX NAME)

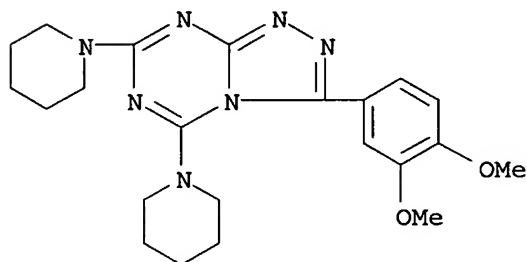


10/781,956

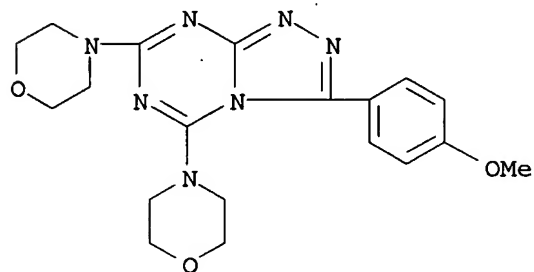
L5 ANSWER 22 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1978:151659 CAPLUS  
DN 88:151659  
TI Photolyses of 2-azido-4-methoxy-6-(1-naphthyl)-1,3,5-triazines: reactions  
of singlet and triplet 1,3,5-triazinylnitrenes with solvents  
AU Goka, Tsuruji; Shizuka, Haruo; Matsui, Kohji  
CS Dep. Chem., Gunma Univ., Kiryu, Japan  
SO Journal of Organic Chemistry (1978), 43(7), 1361-7  
CODEN: JOCEAH; ISSN: 0022-3263  
DT Journal  
LA English  
IT **65103-02-8P**  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 65103-02-8 CAPLUS  
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine, 5-methoxy-7-(2-methoxy-1-  
naphthalenyl)-3-methyl- (9CI) (CA INDEX NAME)



L5 ANSWER 23 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1978:135885 CAPLUS  
DN 88:135885  
TI Studies on heterocyclic compounds. V. Photochemical reactions of  
2-(2,6-dichlorobenzylidenehydrazino)pyrimidine and its related hydrazones  
AU Tsujikawa, Teruaki; Tatsuta, Motomi  
CS Cent. Res. Div., Takeda Chem. Ind., Ltd., Osaka, Japan  
SO Chemical & Pharmaceutical Bulletin (1977), 25(12), 3137-46  
CODEN: CPBTAL; ISSN: 0009-2363  
DT Journal  
LA English  
IT 65845-88-7 65845-89-8 65845-90-1  
65845-91-2  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(photochem. isomerization of)  
RN 65845-88-7 CAPLUS  
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine, 3-(3,4-dimethoxyphenyl)-5,7-di-1-  
piperidinyl- (9CI) (CA INDEX NAME)



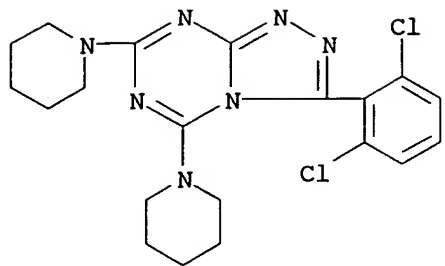
RN 65845-89-8 CAPLUS  
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine, 3-(4-methoxyphenyl)-5,7-di-4-  
morpholinyl- (9CI) (CA INDEX NAME)



RN 65845-90-1 CAPLUS  
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine, 3-(2,6-dichlorophenyl)-5,7-di-1-  
piperidinyl- (9CI) (CA INDEX NAME)

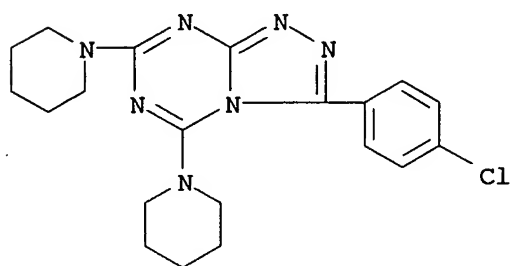


10/781,956



RN 65845-91-2 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine, 3-(4-chlorophenyl)-5,7-di-1-piperidinyl- (9CI) (CA INDEX NAME)



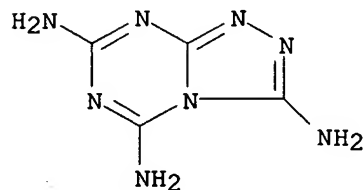
10/781,956

L5 ANSWER 24 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1976:408093 CAPLUS  
DN 85:8093  
TI Functional fluid compositions containing substituted pyrimidines  
IN Sullivan, James D.  
PA Monsanto Co., USA  
SO U.S., 10 pp.  
CODEN: USXXAM

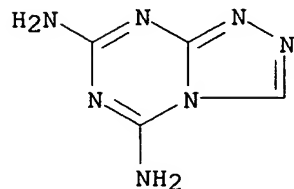
DT Patent  
LA English

FAN.CNT 1

|      | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---|------|----------|-----------------|----------|
| PI   | US 3939084  | A    | 19760217 | US 1973-429451  | 19731228 |
|      | NL 6704601  | A    | 19671009 | NL 1967-4601    | 19670331 |
|      | ES 338687   | A1   | 19680401 | ES 1967-338687  | 19670331 |
|      | BE 696664   | A    | 19671005 | BE 1967-696664  | 19670405 |
|      | IL 27743  | A1   | 19710128 | IL 1967-27743   | 19670405 |
|      | BR 6788302  | A0   | 19730109 | BR 1967-188302  | 19670405 |
|      | GB 1188813  | A    | 19700422 | GB 1967-1188813 | 19670406 |
|      | GB 1192910  | A    | 19700528 | GB 1967-1192910 | 19670406 |
|      | US 3591500  | A    | 19710706 | US 1969-796885  | 19690205 |
|      | US 3752764  | A    | 19730814 | US 1971-156134  | 19710623 |
|      | US 3759829  | A    | 19730918 | US 1971-156133  | 19710623 |
|      | US 3788992  | A    | 19740129 | US 1971-156135  | 19710623 |
| PRAI | US 1966-540488  |      | 19660406 |                 |          |
|      | US 1969-796885  |      | 19690205 |                 |          |
|      | US 1971-156133  |      | 19710623 |                 |          |
|      | US 1972-316159  |      | 19721218 |                 |          |
| IT   | 7144-22-1 23244-86-2                                      |      |          |                 |          |
|      | RL: USES (Uses)   |      |          |                 |          |
|      | (antioxidants, for thioether hydraulic fluids)            |      |          |                 |          |
| RN   | 7144-22-1 CAPLUS  |      |          |                 |          |
| CN   | 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine (9CI) |      |          | (CA INDEX NAME) |          |



RN 23244-86-2 CAPLUS  
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine (9CI) (CA INDEX NAME)



10/781,956

10/781,956

L5 ANSWER 25 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1975:488612 CAPLUS

DN 83:88612

TI Photolysis of azido-1,3,5-triazine. Photocycloaddition of singlet nitrene to nitriles

AU Yamada, Hideo; Shizuka, Haruo; Matsui, Kohji

CS Dep. Chem., Gunma Univ., Kiryu, Japan

SO Journal of Organic Chemistry (1975), 40(9), 1351-3

CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

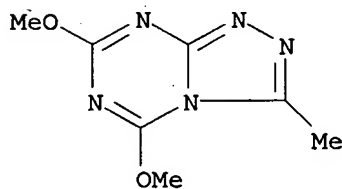
LA English

IT 54410-40-1P

RL: FORM (Formation, nonpreparative); PREP (Preparation)  
(formation of, in photocycloaddn. of azidodimethoxytriazine with acetonitrile)

RN 54410-40-1 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine, 5,7-dimethoxy-3-methyl- (9CI) (CA INDEX NAME)



10/781,956

L5 ANSWER 26 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1975:125364 CAPLUS

DN 82:125364

TI Synthesis of s-triazolo[4,3-a]-s-triazines and their isomerization to s-triazolo[2,3-a]-s-triazines

AU Deshpande, R. J.; Roa, A. V. Rama

CS Natl. Chem. Lab., Poona, India

SO Synthesis (1974), (12), 863-5

CODEN: SYNTBF; ISSN: 0039-7881

DT Journal

LA English

IT 13888-14-7P 54807-07-7P 54807-10-2P

54807-11-3P 54807-15-7P 54807-16-8P

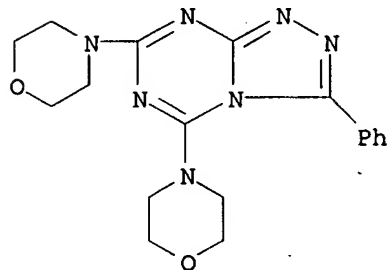
54807-22-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and rearrangement of)

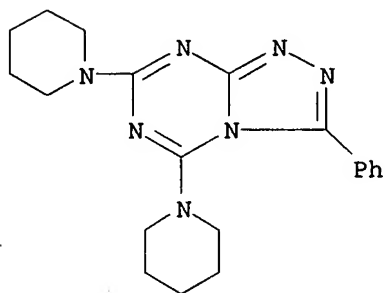
RN 13888-14-7 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine, 5,7-di-4-morpholinyl-3-phenyl- (9CI)  
(CA INDEX NAME)



RN 54807-07-7 CAPLUS

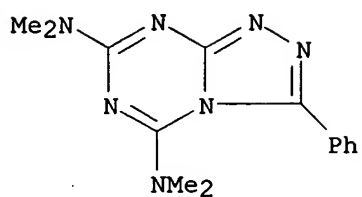
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine, 3-phenyl-5,7-di-1-piperidinyl- (9CI)  
(CA INDEX NAME)



RN 54807-10-2 CAPLUS

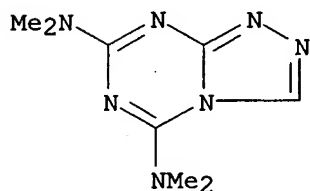
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, N,N,N',N'-tetramethyl-3-phenyl- (9CI) (CA INDEX NAME)

10/781,956



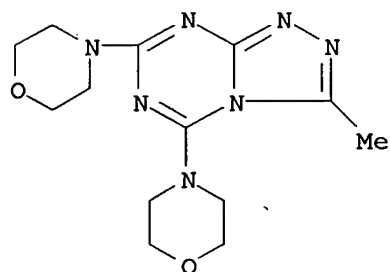
RN 54807-11-3 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, N,N,N',N'-tetramethyl- (9CI) (CA INDEX NAME)



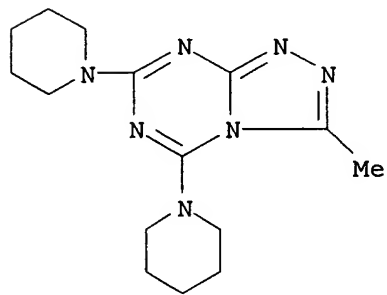
RN 54807-15-7 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine, 3-methyl-5,7-di-4-morpholinyl- (9CI) (CA INDEX NAME)



RN 54807-16-8 CAPLUS

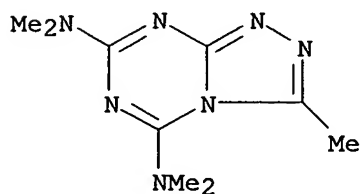
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine, 3-methyl-5,7-di-1-piperidinyl- (9CI) (CA INDEX NAME)



10/781,956

RN 54807-22-6 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, N,N,N',N',3-pentamethyl-  
(9CI) (CA INDEX NAME)

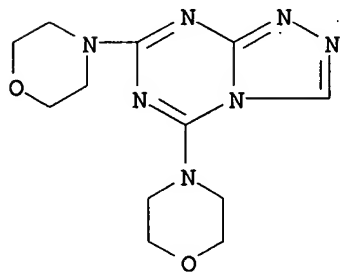


IT 54807-08-8P 54807-09-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

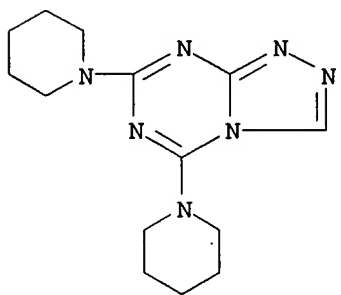
RN 54807-08-8 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine, 5,7-di-4-morpholinyl- (9CI) (CA  
INDEX NAME)



RN 54807-09-9 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine, 5,7-di-1-piperidinyl- (9CI) (CA  
INDEX NAME)



10/781,956

L5 ANSWER 27 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1974:522766 CAPLUS  
DN 81:122766  
TI Basic azo dyes  
IN Maeda, Shigeo; Ozutsumi, Minoru; Kurahashi, Takeo  
PA Hodogaya Chemical Co., Ltd.  
SO Jpn. Kokai Tokkyo Koho, 14 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese

FAN.CNT 1

|      | PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE     |
|------|---------------|------|----------|-----------------|----------|
| PI   | JP 49027287   | A2   | 19740311 | JP 1972-65429   | 19720701 |
| PRAI | JP 1972-65429 |      | 19720701 |                 |          |

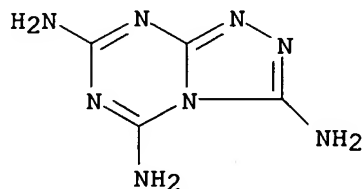
IT 7144-22-1

RL: USES (Uses)

(coupling of diazotized, in manufacture of azo dyes for acrylic fibers)

RN 7144-22-1 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine (9CI) (CA INDEX NAME)



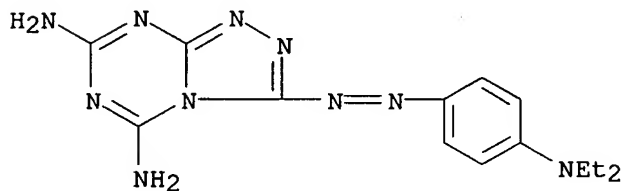
IT 52470-03-8P 52470-04-9P 52552-87-1P

52569-71-8P

RL: IMF (Industrial manufacture); PREP (Preparation)  
(preparation of)

RN 52470-03-8 CAPLUS

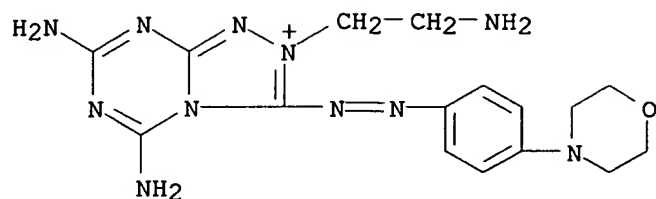
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, 3-[[4-(diethylamino)phenyl]azo]- (9CI) (CA INDEX NAME)



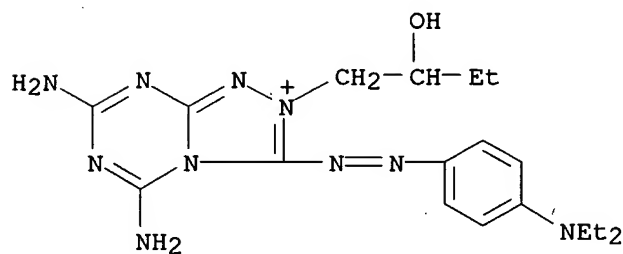
RN 52470-04-9 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazinium, 5,7-diamino-2-(2-aminoethyl)-3-[[4-(4-morpholinyl)phenyl]azo]-, chloride (9CI) (CA INDEX NAME)

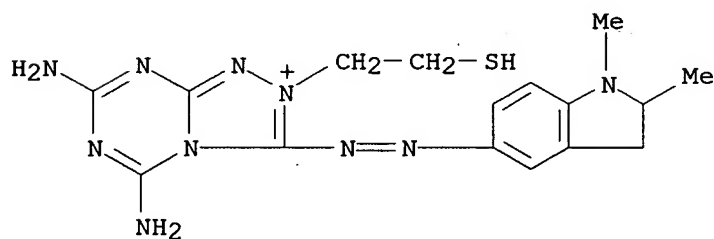


● Cl<sup>-</sup>

RN 52552-87-1 CAPLUS  
 CN 1,2,4-Triazolo[4,3-a][1,3,5]triazinium, 5,7-diamino-3-[[4-(diethylamino)phenyl]azo]-2-(2-hydroxybutyl)-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 52569-71-8 CAPLUS  
 CN 1,2,4-Triazolo[4,3-a][1,3,5]triazinium, 5,7-diamino-3-[(2,3-dihydro-1,2-dimethyl-1H-indol-5-yl)azo]-2-(2-mercaptoethyl)-, chloride (9CI) (CA INDEX NAME)

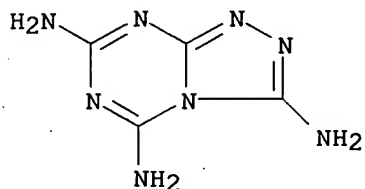
● Cl<sup>-</sup>

10/781,956

L5 ANSWER 28 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1974:493042 CAPLUS  
DN 81:93042  
TI Basic azo dye  
IN Maeda, Shigeo; Ozutsumi, Minoru; Kubota, Yoshio  
PA Hodogaya Chemical Co., Ltd.  
SO Jpn. Kokai Tokkyo Koho, 10 pp.  
CODEN: JKXXAF

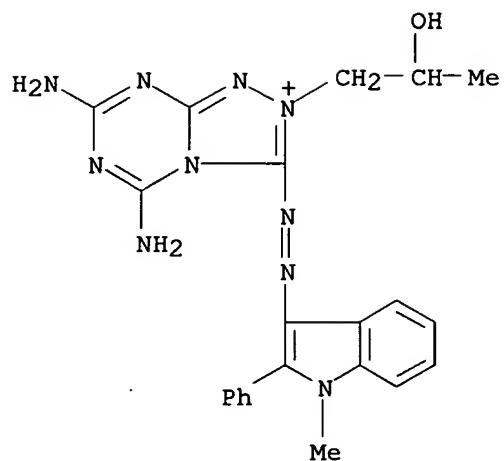
DT Patent  
LA Japanese  
FAN.CNT 1

|      | PATENT NO.  | KIND   | DATE     | APPLICATION NO. | DATE     |
|------|---|--------|----------|-----------------|----------|
| PI   | JP 49024226   | A2     | 19740304 | JP 1972-65430   | 19720701 |
| PRAI | JP 1972-65430   |        | 19720701 |                 |          |
| IT   | 7144-22-1   |        |          |                 |          |
|      | RL: USES (Uses)   |        |          |                 |          |
|      | (coupling of diazotized, with methylphenylindole)                         |        |          |                 |          |
| RN   | 7144-22-1   | CAPLUS |          |                 |          |
| CN   | 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine (9CI) (CA INDEX NAME) |        |          |                 |          |



IT 52171-26-3P 52204-56-5P 52204-57-6P  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(preparation of)  
RN 52171-26-3 CAPLUS  
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazinium, 5,7-diamino-2-(2-hydroxypropyl)-3-  
[(1-methyl-2-phenyl-1H-indol-3-yl)azo]-, (T-4)-tetrachlorozincate(2-)  
(2:1) (9CI) (CA INDEX NAME)  
  
CM 1  
  
CRN 52171-25-2  
CMF C22 H23 N10 O

10/781,956

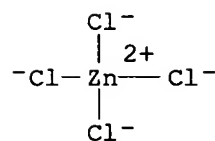


CM 2

CRN 15201-05-5

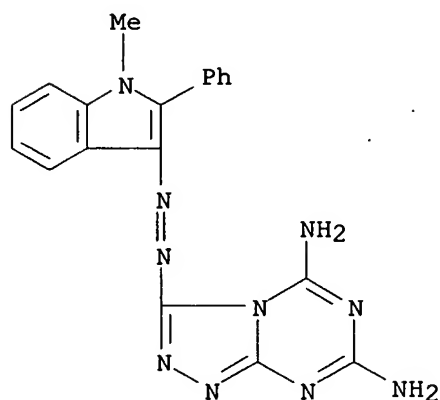
CMF Cl4 Zn

CCI CCS



RN 52204-56-5 CAPLUS

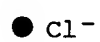
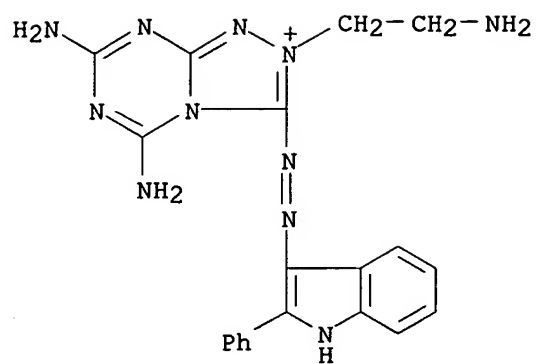
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, 3-[(1-methyl-2-phenyl-1H-indol-3-yl)azo]- (9CI) (CA INDEX NAME)



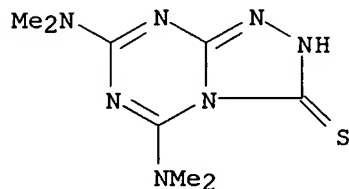
RN 52204-57-6 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazinium, 5,7-diamino-2-(2-aminoethyl)-3-[(2-phenyl-1H-indol-3-yl)azo]-, chloride (9CI) (CA INDEX NAME)

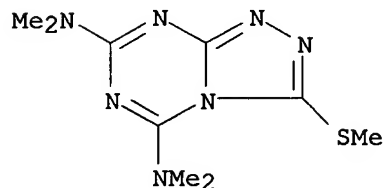
10/781,956



L5 ANSWER 29 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1973:432013 CAPLUS  
 DN 79:32013  
 TI Synthesis and Dimroth-type rearrangement of 5,7-bis(dimethylamino)-3-(methylthio)-s-triazolo[4,3-a]-s-triazine  
 AU DeMilo, Albert B.; Oliver, James E.; Gilardi, Richard D.  
 CS Agric. Environ. Qual. Inst., Agric. Res. Serv., Beltsville, MD, USA  
 SO Journal of Heterocyclic Chemistry (1973), 10(2), 231-3  
 CODEN: JHTCAD; ISSN: 0022-152X  
 DT Journal  
 LA English  
 IT **41832-47-7P 41832-48-8P 41832-49-9P**  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 41832-47-7 CAPLUS  
 CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3(2H)-thione, 5,7-bis(dimethylamino)-  
 (9CI) (CA INDEX NAME)



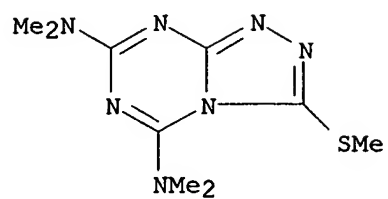
RN 41832-48-8 CAPLUS  
 CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, N,N,N',N'-tetramethyl-3-(methylthio)-, monohydriodide (9CI) (CA INDEX NAME)



● HI

RN 41832-49-9 CAPLUS  
 CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine, N,N,N',N'-tetramethyl-3-(methylthio)- (9CI) (CA INDEX NAME)

10/781,956



10/781,956

L5 ANSWER 30 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1972:490056 CAPLUS

DN 77:90056

TI Basic azo dyes

IN Ozutsumi, Minoru; Maeda, Shigeo; Nakajo, Teruo; Shinmura, Isao

PA Hodogaya Chemical Co., Ltd.

SO Jpn. Tokkyo Koho, 20 pp.

CODEN: JAXXAD

DT Patent

LA Japanese

FAN.CNT 1

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|----|-------------|------|----------|-----------------|----------|
| PI | JP 47011348 | B4   | 19720408 | JP 1969-92904   | 19691121 |

IT **35894-58-7P 37502-57-1P**

RL: IMF (Industrial manufacture); PREP (Preparation)  
(preparation of)

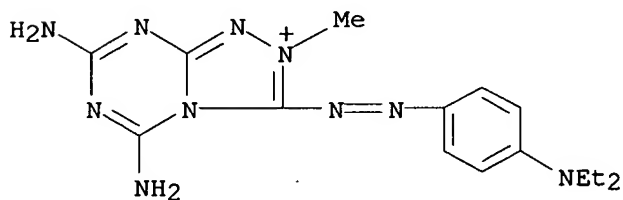
RN 35894-58-7 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazinium, 5,7-diamino-3-[[4-(diethylamino)phenyl]azo]-2-methyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 50565-99-6

CMF C15 H21 N10



CM 2

CRN 21228-90-0

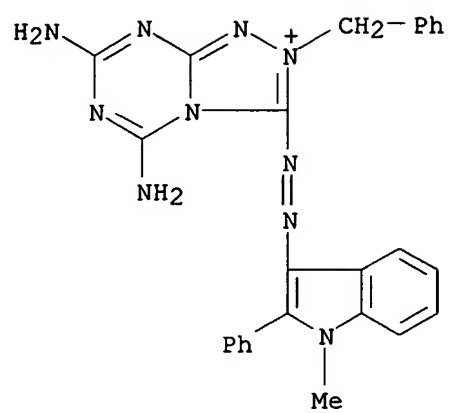
CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

RN 37502-57-1 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazinium, 5,7-diamino-3-[(1-methyl-2-phenyl-1H-indol-3-yl)azo]-2-(phenylmethyl)-, chloride (9CI) (CA INDEX NAME)

10/781,956

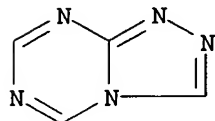


● Cl<sup>-</sup>

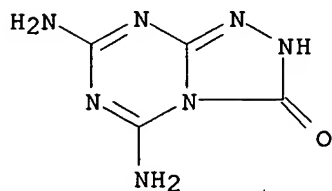


10/781,956

L5 ANSWER 31 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1971:509632 CAPLUS  
DN 75:109632  
TI Minimal structural conditions for the Dimroth-type rearrangement in the  
polyazaindolizine series  
AU Guerret, Patrick; Jacquier, Robert; Maury, Georges  
CS Lab. Synth. Et. Physiochim. Heterocycles Azotes, Univ. Sci. Tech.  
Languedoc, Montpellier, Fr.  
SO Journal of Heterocyclic Chemistry (1971), 8(4), 643-50  
CODEN: JHTCAD; ISSN: 0022-152X  
DT Journal  
LA English  
IT 274-99-7  
RL: PRP (Properties)  
(electron d. of, calcn. of)  
RN 274-99-7 CAPLUS  
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine (9CI) (CA INDEX NAME)



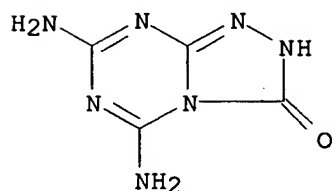
L5 ANSWER 32 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1971:87928 CAPLUS  
DN 74:87928  
TI Synthesis and oxidation of hydrazino-s-triazines. III. Synthesis and  
reactions of hydrazino- and semicarbazide-s-triazines  
AU Honda, Itaru; Keumi, Takashi; Shimomura, Yoshiji  
CS Fukui Univ., Fukui, Japan  
SO Kogyo Kagaku Zasshi (1969), 72(2), 593-9  
CODEN: KGKZA7; ISSN: 0368-5462  
DT Journal  
LA Japanese  
IT 31143-98-3P 31143-99-4P 31144-00-0P  
31144-01-1P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 31143-98-3 CAPLUS  
CN s-Triazolo[4,3-a]-s-triazin-3(2H)-one, 5,7-diamino- (8CI) (CA INDEX NAME)



RN 31143-99-4 CAPLUS  
CN s-Triazolo[4,3-a]-s-triazin-3(2H)-one, 5,7-diamino-, monopicrate (8CI)  
(CA INDEX NAME)

CM 1

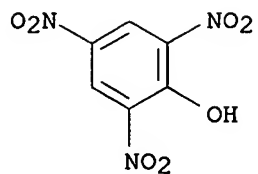
CRN 31143-98-3  
CMF C4 H5 N7 O



CM 2

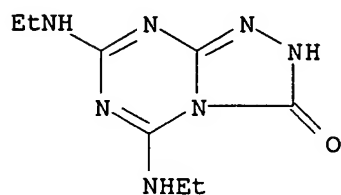
CRN 88-89-1  
CMF C6 H3 N3 O7

10/781,956



RN 31144-00-0 CAPLUS

CN s-Triazolo[4,3-a]-s-triazin-3(2H)-one, 5,7-bis(ethylamino)- (8CI) (CA INDEX NAME)



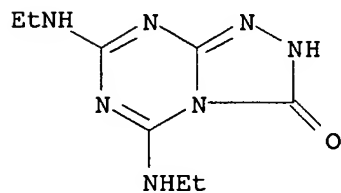
RN 31144-01-1 CAPLUS

CN s-Triazolo[4,3-a]-s-triazin-3(2H)-one, 5,7-bis(ethylamino)-, monopicrate (8CI) (CA INDEX NAME)

CM 1

CRN 31144-00-0

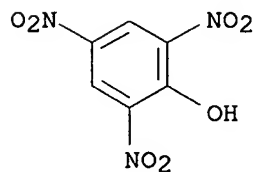
CMF C8 H13 N7 O



CM 2

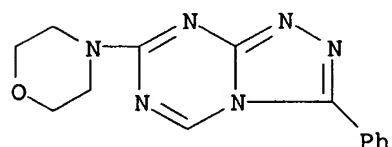
CRN 88-89-1

CMF C6 H3 N3 O7

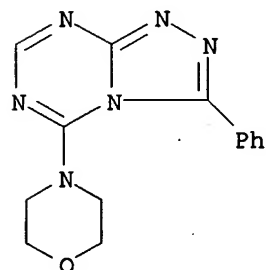




L5 ANSWER 33 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1970:477206 CAPLUS  
DN 73:77206  
TI Synthesis of s-triazolo[4,3-a]-1,3,5-triazines  
AU Kobe, J.; Stanovnik, B.; Tisler, Miha  
CS Dep. Chem., Univ. Ljubljana, Ljubljana, Yugoslavia  
SO Tetrahedron (1970), 26(13), 3357-68  
CODEN: TETRAB; ISSN: 0040-4020  
DT Journal  
LA English  
IT 28750-23-4 28750-24-5  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(mixture with isomer)  
RN 28750-23-4 CAPLUS  
CN s-Triazolo[4,3-a]-s-triazine, 7-morpholino-3-phenyl- (8CI) (CA INDEX NAME)

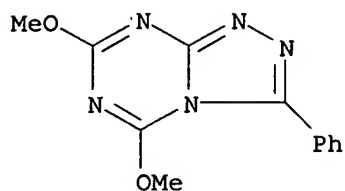


RN 28750-24-5 CAPLUS  
CN s-Triazolo[4,3-a]-s-triazine, 5-morpholino-3-phenyl- (8CI) (CA INDEX NAME)



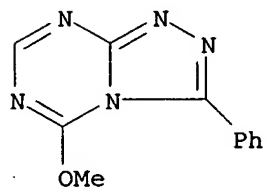
IT 13888-17-0P 28735-54-8P 28750-17-6P  
28750-19-8P 28750-20-1P 28750-21-2P  
28750-22-3P 28750-26-7P 28750-27-8P  
28750-28-9P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 13888-17-0 CAPLUS  
CN s-Triazolo[4,3-a]-s-triazine, 5,7-dimethoxy-3-phenyl- (8CI) (CA INDEX NAME)

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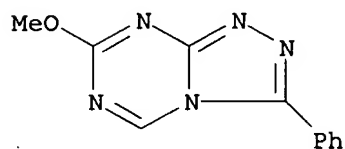
RN 28735-54-8 CAPLUS

CN s-Triazolo[4,3-a]-s-triazine, 5-methoxy-3-phenyl- (8CI) (CA INDEX NAME)



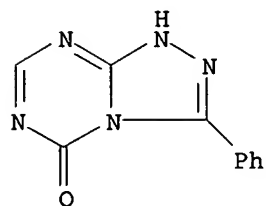
RN 28750-17-6 CAPLUS

CN s-Triazolo[4,3-a]-s-triazine, 7-methoxy-3-phenyl- (8CI) (CA INDEX NAME)



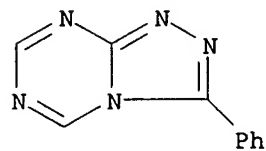
RN 28750-19-8 CAPLUS

CN s-Triazolo[4,3-a]-s-triazin-5(8H)-one, 3-phenyl- (8CI) (CA INDEX NAME)



RN 28750-20-1 CAPLUS

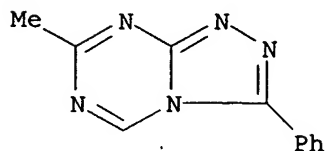
CN s-Triazolo[4,3-a]-s-triazine, 3-phenyl- (8CI) (CA INDEX NAME)



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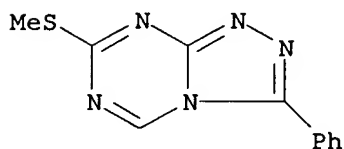
RN 28750-21-2 CAPLUS

CN s-Triazolo[4,3-a]-s-triazine, 7-methyl-3-phenyl- (8CI) (CA INDEX NAME)



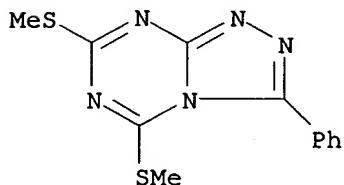
RN 28750-22-3 CAPLUS

CN s-Triazolo[4,3-a]-s-triazine, 7-(methylthio)-3-phenyl- (8CI) (CA INDEX NAME)



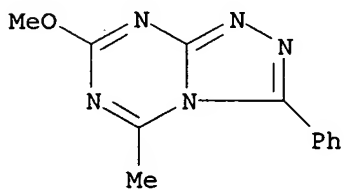
RN 28750-26-7 CAPLUS

CN s-Triazolo[4,3-a]-s-triazine, 5,7-bis(methylthio)-3-phenyl- (8CI) (CA INDEX NAME)



RN 28750-27-8 CAPLUS

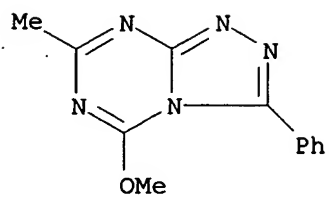
CN s-Triazolo[4,3-a]-s-triazine, 7-methoxy-5-methyl-3-phenyl- (8CI) (CA INDEX NAME)



RN 28750-28-9 CAPLUS

CN s-Triazolo[4,3-a]-s-triazine, 5-methoxy-7-methyl-3-phenyl- (8CI) (CA INDEX NAME)

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L5 ANSWER 34 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1969:98498 CAPLUS

DN 70:98498

TI Heat-transfer fluids and lubricants containing nitrogen compound corrosion inhibitors

IN Sullivan, James D.

PA Monsanto Co.

SO Fr., 15 pp.

CODEN: FRXXAK

DT Patent

LA French

FAN.CNT 1

|      | PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE |
|------|------------|------|----------|-----------------|------|
| PI   | FR 1517601 |      | 19680315 |                 |      |
|      | DE 1644909 |      |          | DE              |      |
|      | GB 1188813 |      |          | GB              |      |
|      | GB 1192910 |      |          | GB              |      |
|      | US 3591500 |      | 19710000 | US              |      |
|      | US 3752764 |      | 19730000 | US              |      |
|      | US 3759829 |      | 19730000 | US              |      |
|      | US 3788992 |      | 19740000 | US              |      |
| PRAI | US         |      | 19660406 |                 |      |

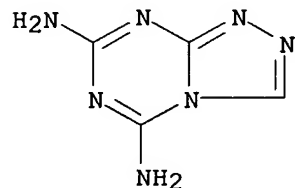
IT 23244-86-2

RL: USES (Uses)

(corrosion inhibitors, for ether lubricants)

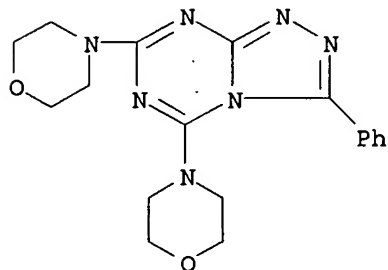
RN 23244-86-2 CAPLUS

CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine (9CI) (CA INDEX NAME)

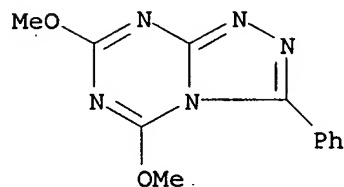


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L5 ANSWER 35 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1967:104972 CAPLUS  
DN 66:104972  
TI Heterocycles. XLVIII. Preparation of substituted 1,3,5-triazines and a novel synthesis of substituted s-triazolo-[4,3-a]-s-triazines  
AU Jelenc, M.; Kobe, J.; Stanovnik, B.; Tisler, Miha  
CS Univ. Ljubljana, Ljubljana, Yugoslavia  
SO Monatshefte fuer Chemie (1966), 97(6), 1713-22  
CODEN: MOCHAP  
DT Journal  
LA German  
IT **13888-14-7P 13888-17-0P**  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)  
RN 13888-14-7 CAPLUS  
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine, 5,7-di-4-morpholinyl-3-phenyl- (9CI)  
(CA INDEX NAME)



RN 13888-17-0 CAPLUS  
CN s-Triazolo[4,3-a]-s-triazine, 5,7-dimethoxy-3-phenyl- (8CI) (CA INDEX NAME)



L5 ANSWER 36 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1963:469578 CAPLUS

DN 59:69578

OREF 59:12952a-c

TI A new synthesis of dyes of the triazine series. II. Vat dyes of triazolotriazine series

AU Titkov, V. A.; Pletnev, I. D.

SO Zhurnal Obshchei Khimii (1963), 33(4), 1355-7

CODEN: ZOKHA4; ISSN: 0044-460X

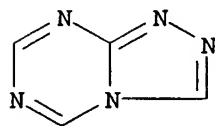
DT Journal

LA Unavailable

IT 274-99-7, s-Triazolo[4,3-a]-s-triazine  
(derivs.)

RN 274-99-7 CAPLUS

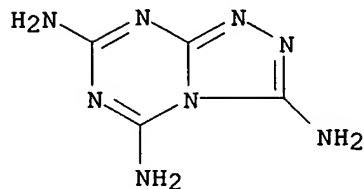
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine (9CI) (CA INDEX NAME)



IT 7144-22-1, s-Triazolo[4,3-a]-s-triazine, 3,5,7-triamino-  
107421-36-3, Anthraquinone, 1,1',1''-(s-triazolo[4,3-a]-s-triazine-  
3,5,7-triyltriimino)tris[4-benzamido- 107421-37-4,  
Anthraquinone, 1,1',1''-(s-triazolo[4,3-a]-s-triazine-3,5,7-  
triyltriimino)tris[5-benzamido- 107526-52-3, Anthraquinone,  
1,1',1''-(s-triazolo[4,3-a]-s-triazine-3,5,7-triyltriimino)tris[3-bromo-  
107541-70-8, Anthraquinone, 1,1',1''-(s-triazolo[4,3-a]-s-triazine-  
3,5,7-triyltriimino)tri-  
(preparation of)

RN 7144-22-1 CAPLUS

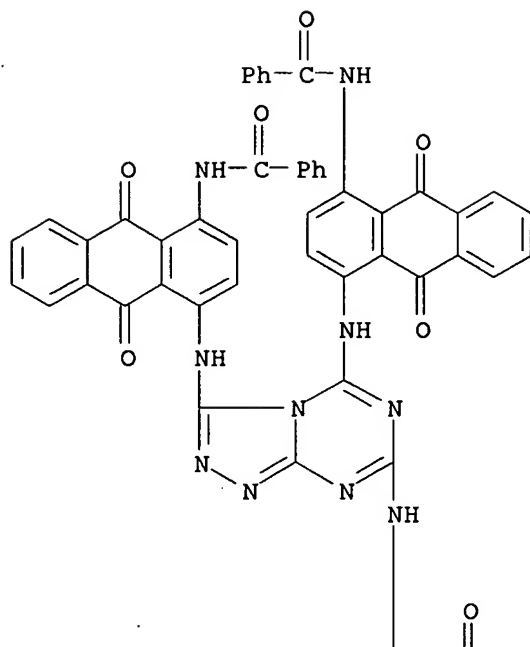
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine (9CI) (CA INDEX NAME)



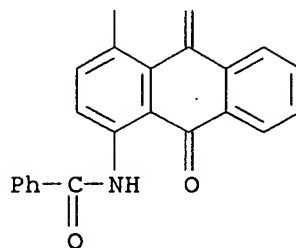
RN 107421-36-3 CAPLUS

CN Anthraquinone, 1,1',1''-(s-triazolo[4,3-a]-s-triazine-3,5,7-  
triyltriimino)tris[4-benzamido- (7CI) (CA INDEX NAME)

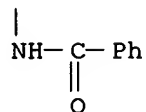
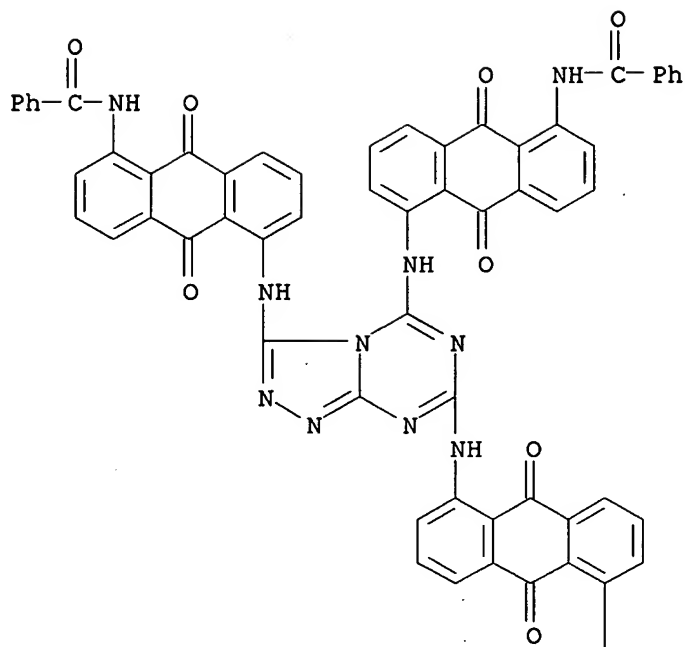
PAGE 1-A



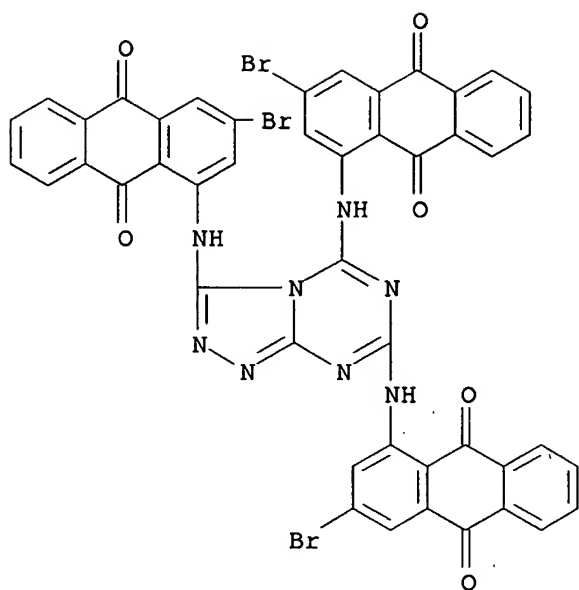
PAGE 2-A



RN 107421-37-4 CAPLUS  
 CN Anthraquinone, 1,1',1''-(s-triazolo[4,3-a]-s-triazine-3,5,7-triyltriimino)tris[5-benzamido- (7CI) (CA INDEX NAME)

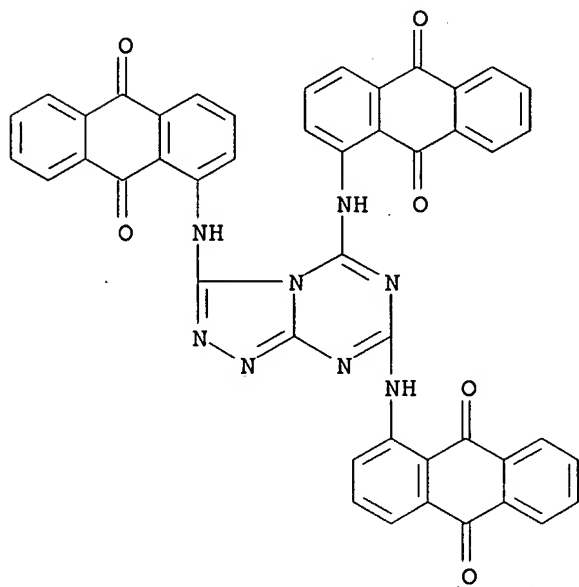


RN 107526-52-3 CAPLUS  
 CN Anthraquinone, 1,1',1''-(s-triazolo[4,3-a]-s-triazine-3,5,7-  
 triyltriimino)tris[3-bromo- (7CI) (CA INDEX NAME)



RN 107541-70-8 CAPLUS

CN Anthraquinone, 1,1',1''-(s-triazolo[4,3-a]-s-triazine-3,5,7-triyltriimino)tri- (7CI) (CA INDEX NAME)



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L5 ANSWER 37 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1960:41080 CAPLUS

DN 54:41080

OREF 54:8096e-f

TI Vat dyes

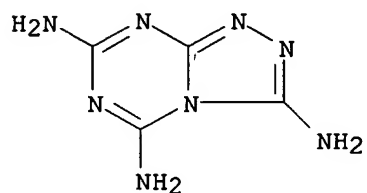
IN Titkov, V. A.; Pletnev, I. D.

DT Patent

LA Unavailable

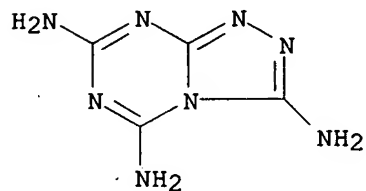
FAN.CNT 1

|    | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE |
|----|--|------|----------|-----------------|------|
| PI | SU 122227  |      | 19590825 | SU              |      |
| IT | 7144-22-1, s-Triazolo[4,3-a]-s-triazine, 3,5,7-triamino-<br>(reaction with 1-chloroanthraquinone and dyes therefrom) |      |          |                 |      |
| RN | 7144-22-1 CAPLUS   |      |          |                 |      |
| CN | 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine (9CI) (CA INDEX NAME)  |      |          |                 |      |



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L5 ANSWER 38 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1954:77635 CAPLUS  
DN 48:77635  
OREF 48:13687a-f  
TI Dicyandiamide. V. Structures of guanazo- and pyroguanazoles, and reaction  
of dicyandiamide with 3-amino-5-substituted-4H-1,2,4-triazoles  
AU Kaiser, D. W.; Peters, G. A.; Wystrach, V. P.  
CS American Cyanamid Co., Stamford, CT  
SO Journal of Organic Chemistry (1953), 18, 1610-15  
CODEN: JOCEAH; ISSN: 0022-3263  
DT Journal  
LA Unavailable  
IT 7144-22-1, s-Triazolo[4,3-a]-s-triazine, 3,5,7-triamino-  
(as structure for guanazoguanazole)  
RN 7144-22-1 CAPLUS  
CN 1,2,4-Triazolo[4,3-a][1,3,5]triazine-3,5,7-triamine (9CI) (CA INDEX NAME)





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L5 ANSWER 39 OF 39 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1949:44173 CAPLUS

DN 43:44173

OREF 43:7974h-i,7975a

TI Triazine derivative

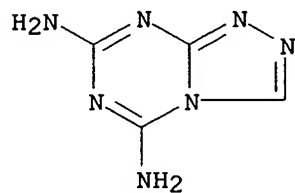
PA Cilag Ltd.

DT Patent

LA Unavailable

FAN.CNT 1

|    | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE |
|----|--|------|----------|-----------------|------|
| PI | CH 243738  |      | 19470116 | CH              |      |
| IT | 23244-86-2, s-Triazolo[4,3-a]-s-triazine, 5,7-diamino- |      |          |                 |      |
|    | (3-derivs.)  |      |          |                 |      |
| RN | 23244-86-2 CAPLUS                                      |      |          |                 |      |
| CN | 1,2,4-Triazolo[4,3-a][1,3,5]triazine-5,7-diamine (9CI) |      |          | (CA INDEX NAME) |      |



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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

122.87

271.23

STN INTERNATIONAL LOGOFF AT 14:02:46 ON 27 SEP 2003